			Consensus includes gb:BG291007 /FEA=EST /DB_XREF=gi:13048543
231870 e at HG-			- -
1433B	10051068	CGI-07 protein	
Ulosb			
	-	Homo sapiens cDNA FLJ13364 fis, clone	(DB_XREF=est:DKFZp434C099_r1 /CLONE=DKFZp434C099 /UG=Hs.315284 &
00001 OIL 32 0E0000		PI ACE100292	1
2318/3_ar_nG-0133B			Consensus includes gb:AB033100.1 /DEF=Homo sapiens mRNA for
		•	KIAA1274 protein, partial cds. /FEA=mRNA /GEN=KIAA1274
Q1 10 1 100 100			/PROD=KIAA1274 protein /DB_XREF=gi:6331286 /UG=Hs.300646 KIAA
23188/_s_al_nG-	KIAA1274	KIAA protein (similar to mouse paladin)	protein (similar to mouse paladin)
UISSB			Consensus includes gb:AL135787 / DEF=Human DNA sequence from clone
			RP11-16L21 on chromosome 9. Contains the gene for NADP-dependent
			leukotriene B4 12-hydroxydehydrogenase, the gene for a novel DnaJ domain
			protein similar to Drosophila, C. elegans and Arabidopsis predicted proteins,
			t /FEA=mRNA 1 /DB XREF=gi:9588110 /UG=Hs.297143 Human DNA
			sequence from clone RP11-16L21 on chromosome 9. Contains the gene for
			NADP-dependent leukotriene B4 12-hydroxydehydrogenase, the gene for a
			novel DnaJ domain protein similar to Drosophila, C. elegans and Arabidopsis
			predicted proteins, the GNG10
23189/_at_HG-U133B			Consensus includes ab: AK023744.1 / IDEF=Homo sapiens cDNA FLJ13682 fis,
			Clone PI ACE2000015, weakly similar to EPIDERMAL GROWTH FACTOR
			RECEPTOR SUBSTRATE SUBSTRATE 15. /FEA=mRNA
		,	OR XRFF=0i-10435769 /UG=Hs.318510 Homo sapiens cDNA FLJ13682 fis,
231926_at_HG-U133B			lomo sapiens cDNA FLJ10708 fis,
0.000	7775	KIAA1275 profein	downregulated myosin heavy chain homolog mRNA. IFEA=mRNA
231945_at_HG-U133B KIAA1273	KIAA12/3		

			/DB_XREF=gi:7022904 /UG=Hs.102796 KIAA1275 protein
			Consensus includes ab: AB037813.1 / IDEF=Homo sapiens mRNA for
	, ,		KIAA1392 protein, partial cds. IFEA=mRNA /GEN=KIAA1392
			9200 hypothetical
	DKEZ0762K222	hypothetical protein DKFZp762K222	
231909_al_nG-0133B			:AK001889.1 /DEF=Homo sapiens cDNA FLJ11027 fis,
			clone PLACE1004114. /FEA=mRNA /DB_XREF=gi:7023437 /UG=Hs.35156
			Homo sapiens cDNA FLJ11027 fis, clone PLACE1004114
231981_at_HG-U133B			Consensus includes gb: AF161441.1 / IDEF=Homo sapiens HSPC323 mRNA,
			partial cds. /FEA=mRNA /PROD=HSPC323 /DB_XREF=gi:6841295
231982_at_HG-U133B			_
			398G3 on chromosome 6q25.1-25.3. Contains the 3part of the genie for the
			artholog of rat CPG2, part of a novel gene, ESTs, STSs and GSSs
			/FEA=mRNA /DB_XREF=gi:4902741 /UG=Hs.241420 Homo sapiens mRNA
			for KIAA1756 protein, partial cds
23202/_at_HG-U133B			Consensus includes ab: BE740761 /FEA=EST /DB_XREF=gi:10154753
		•	/DB_XREF=est:60159357F1 /CLONE=IMAGE:3947415 /UG=Hs.93758 H4
220025 of HG-11133B	НДЕН	H4 histone family, member H	histone family, member H
232032_ar_ri0-0132			Consensus includes gb:AK000776.1 /DEF=Homo sapiens cDNA FLJ20/69 fis.
			clone COL06674. /FEA=mRNA /DB_XREF=gi:7021073 /UG=Hs.128753 Homo
1133B			sapiens cDNA FLJ20769 fis, clone COL06674
232000_al_no-01			Consensus includes gb:AL390186.1 /DEF=Homo sapiens mRNA; cDNA
			F=gi:9368899
232080 at HG-11133B	KIAA1301	KIAA1301 protein	
2020072		ESTs. Weakly similar to KIAA0351	2
232112 at HG-U133B			/DB_XREF=est:UI-HF-BN0-alq-c-04-0-UI.r1 /CLONE=IMAGE:3080431
1			

WO 03/03	9443					PC 1/EPU.	2/12303
/UG=Hs.220745 Human DNA sequence from clone RP4-595C2 on chromosome 1q24.1-25.3 Contains ESTs, STSs and GSSs. Contains the 3 part of the gene for two isoforms of the KIAA0351 protein and the gene for angiopoietin Y1	Consensus includes gb:AU147419 /FEA=EST /DB_XREF=gi:11000340 /DB_XREF=est:AU147419 /CLONE=MAMMA1000616 /UG=Hs.202577 Homo sapiens cDNA FLJ12166 fis, clone MAMMA1000616	Consensus includes gp:AKUZ1434.1 / DEF-FIGURO Square Consensus includes gp:AKUZ1434.1 / DE_XREF=gi:10432689 /UG=Hs.166486 Home sapiens cDNA FLJ11432 fis, clone HEMBA1001099	Consensus includes gb:BC004940.1 /DEF=Homor sapiens, Similar to Kincin cDNA 2210403L10 gene, clone IMAGE:3609702, mRNA, partial cds. //FEA=mRNA /PROD=Similar to RIKEN cDNA 2210403L10 gene //DB_XREF=gi:13436292 /UG=Hs.240951 Homo sapiens, Similar to RIKEN	Consensus includes gb:AF208502.1 /DEF=Homo sapiens early B-cell transcription factor (EBF) mRNA, partial cds. /FEA=mRNA /GEN=EBF //PROD=early B-cell transcription factor /DB_XREF=gi:6630993 /UG=Hs.185708 early B-cell factor	Homo sapiens cDNA FLJ14056 fis, clone rapiens cDNA FLJ14056 fis, c	Consensus includes gb:AL353944.1 / IDET=Rollino Sapieris III.W. Consensus includes gb:AL353944.1 / IDET=Rollino Sapieris III.W. Consensus III.W. Consensus III.W. Consensus III.W. Consensus III.W. Consensus III.W. Consensus III. Con	Consensus includes gb.AA305476 /FEA=EST /DB_XREF=gi:195/823 //DB_XREF=est:EST176483 /UG=Hs.184062 putative Rab5-interacting protein
	Homo sapiens cDNA FLJ12166 fis, clone MAMMA1000616			naked cutice nomotog z (urosoprina)	Hemb sapiens cDNA FLJ14056 fis, done HEMBB1000335		chromosome 20 open reading frame 24
				ZQ I	4		C20orf24
	232125_at_HG-U133B	232127_at_HG-U133B			232204_at_HG-U133B 232210_at_HG-U133B	232231 at HG-U133B	232234_at_HG-U133B C20orf24

			Cossessus includes ab:AU146963 /FEA=EST /DB_XREF=gi:11008484
		Homo sapiens cDNA FLJ12049 fis, clone	Homo saciens cDNA FLJ12049 fis, clone //DB_XREF=est:AU146963 //CLONE=HEMBB1001996 /UG=Hs.171395 Homo
000644 of UC 11433B		HEMBB1001996	sapiens cDNA FLJ12049 fis, done HEMBB1001996
727014 al no-01020			Consensus includes gb: AL080239 /DEF=Human DNA sequence from clone
			GS1-256022 on chromosome Xq26.3-28 Contains part of a gene similar to
			IGFALS (insulin-like growth factor binding protein, acid labile subunit), an
			EST, STSs, GSSs and a CpG Island /FEA=CDS /DB_XREF=gi:5531259
	•		/UG=Hs.272284 Human DNA sequence from clone GS1-256022 on
			chromosome Xq26.3-28 Contains part of a gene similar to IGFALS (insulin-
			like growth factor binding protein, acid labile subunit), an EST, STSs, GSSs
232636 at HG-U133B			and a CpG Island
			Consensus includes gb:AC004908 / DEF=Homo sapiens rac doile in S
			855D21 /FEA=CDS_3 /DB_XREF=gi:41561/9 /UG=HS.249101 riving saprens
232641 at HG-11133B		•	PAC clone RP5-855D21
2320 01178-110202			Consensus includes gb:AK025419.1 /DEF=Homo sapiens cDNA: FLJZ1/bb
			fis, clone COLF7179. IFEA=mRNA IDB_XREF=gi:10437927 IUG=Hs.318722
			Homo sapiens cDNA. FLJ21766 fis, clone COLF7179
232/39_at_HG-U133B			Consensus includes gb:AK026750.1 /DEF=Homo sapiens cDNA: FLJ23097
			fis, clone LNG07418. IFEA=mRNA IDB_XREF=gi:10439673 /UG=Hs.152432
0000			Homo sapiens cDNA: FLJ23097 fis, clone LNG07418
232841_at_nG-01330			Consensus includes gb: AB040890.1 / IDEF=Homo sapiens mRNA for
			KIAA1457 protein, partial cds. /FEA=mRNA /GEN=KIAA1457
232050 s at HG-		PYK2 N-terminal domain-interacting	/PROD=KIAA1457 protein /DB_XREF=gi:7959174 /UG=Hs.272759 KIAA1457
•	NIR3	receptor 3	protein
			Consensus includes gb:Al348745 /FEA=EST /DB_XKEF=gi:4uo3331
			/DB_XREF=esttq92e12.x2 /CLONE=IMAGE:2051566 /UG=Hs.153642 Holling
233072 at HG-U133B K	KIAA1857	netrin G2	sapiens done 25187 and 25188 mRNA sequences, partial cus
233106 at HG-U133B		Homo sapiens cDNA FLJ12375 fis, clone	Consensus includes gb:AU148034 /rEA-ES1 /DC_S32: 8

		MAMMA1002475	/DB_XREF=est:AU148054 /CLONE=MAMMA1002475 /UG=Hs.288797 Homo sapiens cDNA FLJ12375 fis, clone MAMMA1002475
			Consonerie includes ab AF143887.1 /DEF=Homo sapiens clone
			IMAGE:121687 mRNA sequence. IFEA=mRNA IDB_XREF=gi:4895032
233137 of HG-11133B			/UG=Hs.18119 Homo sapiens clone IMAGE:121687 mRNA sequence
2007			Consensus includes gb:AU155968 /FEA=EST /DB_XREF=gi:11017489
		Homo sapiens cDNA FLJ13412 fis, clone	/DB_XREF=est.AU155968 /CLONE=PLACE1001745 /UG=Hs.178533 Homo
222138 of HG.11133R		PLACE1001745	sapiens cDNA FLJ13412 fis, clone PLACE1001745
20010-011-18-001007			Consensus' includes gb:AB033010.1 /DEF=Homo sapiens mRNA for
			KIAA1184 protein, partial cds. /FEA=mRNA /GEN=KIAA1184
233177 s at HG-			/PROD=KIAA1184 protein /DB_XREF=gi:6330254-/UG=Hs.100747 KIAA1184
	KIAA1184	KIAA1184 protein	protein
UISSB	ייייייייייייייייייייייייייייייייייייייי		Conseque includes ob Al 117535.1 (DEF=Homo sapiens mRNA; cDNA
			DKFZp434F062 (from clone DKFZp434F062). IFEA=mRNA
			IDB XREF=qi:5912064 /UG=Hs.150874 Homo sapiens mRNA; cDNA
		1	DKFZp434F062 (from clone DKFZp434F062)
233195_at_HG-U133B			Conseque includes ob AU145682 /FEA=EST /DB_XREF=gi:11007203
		NO CONA El 141741 fie clone	October 19 19 19 19 19 19 19 19 19 19 19 19 19
1		Homo sapiens curve realistics, sens	sapiens cDNA FLJ11741 fis, clone HEMBA1005506
233261_at_HG-U133B			Consensus includes qb:AL121673 /DEF=Human DNA sequence from clone
			RP11-305P22 on chromosome 20 Contains ESTs, STSs, GSSs and 7 CpG
			islands. Contains three novel genes and a novel gene for a helix-loop-helix
			DNA binding protein /FEA=mRNA_7 /DB_XREF=gi:9650752 /UG=Hs.34487
233328_x_at_HG-			hypothetical protein FLJ23412
บารสธ			Consensus includes gb:AK024458.1 /DEF=Homo sapiens mRNA for
			FLJ00050 protein, partial cds. /FEA=mRNA /GEN=FLJ00050
		Homo sapiens mRNA for FLJ00050	/PROD=FLJ00050 protein /DB_XREF=gi:10440429 /UG=Hs.193857 Homo
000000		orotein partial cds	sapiens mRNA for FLJ00050 protein, partial cds
233483_at_riG-U1535			

			Consensus includes gb:AF285089.1 / DEF=Homo sapiens clone 7B C-type
20 to 2000			Φ.
233300_X_al_nG	1.1	lectionlike NK cell receptor	
01330	-		Consensus includes gb:AL359338.1 /DEF=Homo sapiens mRNA full length
233520 e at HG-			RNA full length insert
11433B			cDNA done EUROIMAGE 2068071
90010			Consensus includes gb:AL034418 /DEF=Human DNA sequence from clone
			RP5-1049G16 on chromosome 20q12-13.2. Contains the 3 end of the
			NCOA3 gene for nuclear receptor coactivator 3 (thyroid hormone receptor
			activator molecule TRAM-1, Receptor-Associated Coactivator RAC3, Amplified
223555 s af HG-			In Br /FEA=mRNA_4 //DB_XREF=gi:11546048 /UG=Hs.43857 similar to
11133B			glucosamine-6-sulfatases
2000			Consensus includes gb:AK023415.1 /DEF=Homo sapiens cDNA FLJ13353 fis,
			clone OVARC1002182, weakly similar to BETA-TRCP (BETA-TRANSDUCIN
722550 s of HG-			REPEAT-CONTAINING PROTEIN). /FEA=mRNA / IDB_XREF=gi:10435344
23300 - 2 - 4 - 110	EENS.1	phosphoinositide-binding protein SR1	/UG=Hs.44743 KIAA1435 protein
diodio			Consensus includes gb:AK000392.1 /DEF=Homo sapiens cDNA FLJ20385 fis,
723580 v at HG-			clone KAIA4085. /FEA=mRNA /DB_XREF=gi:7020451 /UG=Hs.169758
11133B		,	hypothetical protein FLJ20245
			Consensus includes gb:AU156209 /FEA=EST /DB_XREF=gi:11017730
		Homo sapiens cDNA FLJ13436 fis, clone	Homo sapiens cDNA FLJ13436 fis, clone //DB_XREF=est:AU156209 /CLONE=PLACE1002598 /UG=Hs.296737 Homo
233613 v at HG-		PLACE1002598, weakly similar to	sapiens cDNA FLJ13436 fis, clone PLACE1002598, weakly similar to
11433B		OLIGORIBONUCLEASE (EC 3.1)	
			fis, clone COL03425. /FEA=mRNA /DB_XREF=gi:10439867 /UG=Hs.288651
233813 at HG-U133B		-	
200015_ct_UC 11433B		Homo sapiens clone HQ0452 PRO0452	Consensus includes gb.AF090925.1 /DEF=Homo sapiens clone HQ0452
233845_at_mG-0133B			

		mRNA, partial cds	PRO0452 mRNA, partial cds. /FEA=mRNA /PROD=PRO0452 /DB_XREF=gi:6690216 /UG=Hs.283921 Homo sapiens done HQ0452 PRO0452 mRNA partial cds
			1782.1 /DEF=Homo sapiens cDNA FLJ10920 fis,
233055 × at HG-			
L133B	HSPC195	hypothetical protein HSPC195	
			Consensus includes gb:AK022692.1 /DEF=Homo sapiens cDNA FLJ12630 ns,
234005 x at HG-		serine/threonine kinase 36 (fused	clone NT2RM4001836. /FEA=mRNA /DB_XREF=gi:10434236 /UG=Hs.26996
U133B	STK36	homolog, Drosophila)	KIAA1278 protein
			Consensus includes gb:AF119847.1 /DEF=Homo sapiens PRO1550 mKNA,
			partial cds. /FEA=mRNA /PROD=PRO1550 /DB_XREF=gi:7770130
234032 at HG-11133B			/UG=Hs.283940 Homo sapiens PRO1550 mRNA, partial cds
2010-011-01-010-010-010-010-010-010-010-			Consensus includes ab:AL121780 /DEF=Human DNA sequence from clone
			RP11-555E18 on chromosome 20 Contains the 3 end of the gene for a
			novel protein similar to bacterial histidyl-tRNA synthetase, ESTs, STSs and
224107 0 110		-	GSSs /FEA=mRNA /DB_XREF=gi:10334636 /UG=Hs.306024 FK506-binding
234101 - 3 - al - 110			protein 3 (25kD)
decio			Consensus includes ab: AK021831.1 / DEF=Homo sapiens cDNA FLJ11769 fis,
			clone HEMBA1005755. /FEA=mRNA /DB_XREF=gi:10433098 /UG=Hs.306614
224122 at UC 11133B			Homo sapiens cDNA FLJ11769 fis, clone HEMBA1005755
234132_al_113-01323			Consensus includes gb:AK023369.1 /DEF=Homo sapiens cDNA FLJ13307 fis,
			clone OVARC1001419, weakly similar to Homo sapiens GOK (STIM1)
-			mRNA. /FEA=mRNA /DB_XREF=gi:10435274 /UG=Hs.306644 Homo sapiens
22440 0 24 110			
234140_3_at_110_	STIM2	stromal interaction molecule 2	
2000			partial
224367 s at HG.		cytotoxic T-lymphocyte-associated	cds. /FEA=mRNA /GEN=CTLA-4 /PROD=CTLA-4 /DB_XREF=gi:4099840
11133B	CTLA4	protein 4	/UG=Hs.247824 cytotoxic T-lymphocyte-associated protein 4

			Consensus includes ob AF079098.1 /DEF=Homo sapiens arginine-tRNA-
•			protein transferase 1-1p (ATE1) mRNA, alternatively spliced product, partial
OU to 0 100			cds. /FEA=mRNA /GEN=ATE1 /PROD=arginine-tRNA-protein transferase 1-1p
234304_s_ar_110-	ATF1	arginyltransferase 1	/DB_XREF=gi:3806093 /UG=Hs.301497 arginyltransferase 1
decio			Consensus includes gb:AK025451.1 /DEF=Homo sapiens cDNA: PLJ21739
			fis, done HEP00573. /FEA=mRNA /DB_XREF=gi:10437968 /UG=Hs.306812
234643_x_at_HG-			Homo sapiens cDNA: FLJ21798 fis, clone HEP00573
U133B			Consensus includes gb:AL080158.1 /DEF=Homo-sapiens mRNA; cDNA
			DKFZp434L194 (from clone DKFZp434L194); partial cds. /FEA=mRNA
0000000			/GEN=DKFZp434L194 /PROD=hypothetical protein /DB_XREF=gi:5262618
234050_s_al_nG-	Sid	mitatic control protein dis3 homolog	/UG=Hs.323346 KIAA1008 protein
U133B	CEIO		Consensus includes gb: AL079341 / DEF=Human DNA sequence from clone
			RP1-319M7 on chromosome 6p21.1-21.3 Contains a gene for a protein
			similar to KIAA0952 protein, a novel pseudogene, STSs, GSSs and a CpG
			island /FEA=CDS /DB_XREF=gi:8655533 /UG=Hs.307123 Human DNA
	-		sequence from clone RP1-319M7 on chromosome 6p21.1-21.3 Contains a
			gene for a protein similar to KIAA0952 protein, a novel pseudogene, STSs,
		1	GSSs and a CpG island
234682_at_HG-U133B			
		sema domain, immunoglobulin domain	Consensus includes gb:AK026133.1 /DEF=Homo sapiens cDNA: FLJ22480
234725 c at HG-		short cytoplasmic domain, (semaphorin)	fis, clone HRC10841. IFEA=mRNA IDB_XREF=gi:10438886 IUG=Hs.9598
204120_8_810	0.00	787	hypothetical protein from EUROIMAGE 1955967
U133B	SEIWIA4D	2	Consensus includes gb: AK025482.1 /DEF=Homo sapiens cDNA: FLJ21829
000			fis, clone HEP01461. /FEA=mRNA /DB_XREF=gi:10438011 /UG=Hs.79353
234/26_s_at_nG-			hypothetical protein FLJ13576
U133B			Consensus includes gb:U96394.1 /DEF=Human anti-streptococcalanti-myosin
•			immunoglobulin lambda light chain variable region mRNA, partial cds.
234764_x_at_HG-			/FEA=mRNA /PROD=anti-streptococcalanti-myosin immunoglobulinlambda light
U133B			

	to to	chain variable region /DB_XREF=gi:2352087 /UG=Hs.307341 Human anti-streptococcalanti-myosin immunoglobulin lambda light chain variable region
	E	mRNA, partial cds
	0	mRNA; cDNA
	0	DKFZp5641103 (from clone DKFZp5641103). /FEA=mRNA
	<u> </u>	/DB_XREF=gi:4500031 /UG=Hs.274502 Homo sapiens mRNA; cDNA
234839 at HG-U133B	Ω .	DKFZp5641103 (from clone DKFZp5641103)
1	0	Consensus includes gb:AL096770 /DEF=Human DNA sequence from clone
	~	RP11-150A6 on chromosome 6. Contains four genes for novel 7
	TT.	transmembrane receptor (rhodopsin family) (offactory receptor like) proteins, a
	<u>a</u>	DDX6 (DEADH (Asp-Glu-Ala-AspHis) box polypeptide 6 (RNA helicase,
	<u></u>	54kD)) ps /FEA=CDS_3 /DB_XREF=gi:10198644 /UG=Hs.272282 Human
	Ω	DNA sequence from clone RP11-150A6 on chromosome 6. Contains four
		genes for novel 7 transmembrane receptor (rhodopsin family) (olfactory
	<u> </u>	receptor like) proteins, a DDX6 (DEADH (Asp-Glu-Ala-AspHis) box
234862 at HG-U133B	ă.	polypeptide 6 (RNA helicase, 54kD)) pseudogene
1	Homo sapiens cDNA FLJ32182 fis, clone C	Consensus includes gb:AA828371 /FEA=EST /DB_XREF=gi:2901470
235023 at HG-U133B		/DB_XREF=est:ob60g12.s1 /CLONE=IMAGE:1335814 /UG=Hs.292896 ESTs
	Homo sapiens cDNA FLJ31090 fis, clone C	Consensus includes gb:BF696931 /FEA=EST /DB_XREF=gi:11982339
235051 at HG-U133B		/DB_XREF=est:602129695F1 /CLONE=IMAGE:4286422 /UG=Hs.55098 ESTs
	3	Consensus includes gb:AV758821 /FEA=EST /DB_XREF=gi:10916669
	ESTs, Weakly similar to 138598 zinc	/IDB_XREF=est:AV758821 /CLONE=BMFAWC02 /UG=Hs.50405 ESTs, Weakly
235052 at HG-U133B	finger protein ZNF132 [H.sapiens] si	similar to Z132_HUMAN ZINC FINGER PROTEIN 13 H.sapiens
	Homo sapiens cDNA FLJ30116 fis, clone C	
	BRACE1000042, weakly similar to	
	PROTEIN PHOSPHATASE 2C ABI2 (EC M	AMILY SO SEQUENCE
235061_at_HG-U133B	3.1.3.16) C	CONTAMINATION WARNING ENTRY H.sapiens
235101 at HG-11133B KIAA1014	KIAA1014 protein	Consensus includes gb:AV683244 /FEA=EST /DB_XREF=gi:10285107
_		

			IND YREE HAST-AV/6R3244 /CLONE=GKCASH01 /UG=Hs.195602 ESTs
			į.
			00 ESTS,
		Homo sapiens, clone IMAGE:4592052,	Weakly similar to ALU1_HUMAN ALU SUBFAMILY J SEQUENCE
235124 at HG-1133B		mRNA, partial cds	
20010 011-10-1002			
		Homo sapiens, clone MGC:29898	/DB_XREF=est:zt75b06.s1 /CLONE=IMAGE:728147 /UG=Hs.97415 ESTs,
235259 at HG-11133B		IMAGE:4992139, mRNA, complete cds	Weakly similar to E04F6.2 gene product C.elegans
			Consensus includes gb:BF530545 /FEA=EST /DB_XREF=gi:11617908
			/DB_XREF=est:602071803F1 /CLONE=IMAGE:4214760 /UG=Hs.271853 ESTs,
		•	Moderately similar to ALU2_HUMAN ALU SUBFAMILY SB SEQUENCE
235263_at_HG-U133B	DKFZP434A0131	DKFZp434A0131 protein	CONTAMINATION WARNING ENTRY H.sapiens
		ESTs, Weakly similar to JC5314	
٠		CDC28/cdc2-like kinase associating	Consensus includes gb:BF032500 /FEA=EST /DB_XKEF=gl:10/40212
235278 at HG-U133B		arginine-serine cyclophilin [H.sapiens]	/DB_XREF=est:601453326F1 /CLONE=IMAGE:3856854 /UG=Hs.136585 ESTS
		Homo sapiens cDNA FLJ31360 fis, clone	Consensus includes gb:AW192700 /FEA=EST /DB_XREF=gi:64/1399
235287 at HG-U133B		MESAN2000572	/DB_XREF=est:xi48h09.x1 /CLONE=IMAGE:2677985 /UG=Hs.253015 ESTs
OF 10 10 10 00 000		Homo saniens cDNA FLJ32255 fis. clone	Homo saniens CDNA FLJ32255 ffs. clone Consensus includes gb:BE875232 /FEA=EST /DB_XREF=gi:10324008
235291_s_ar_nG-		PDOST400028	/DB_XREF=est:601488533F1_/CLONE=IMAGE:3890600_/UG=Hs.268180_ESTs
U133B		FROST TOUGEZO	Canada includes of A134142 /FFA=EST /DB XREF=gi:4078069
235331_x_at_HG-		ESTs, Weakly similar to JC4296 fing	ESTS A84701 aH=011 A070000:30 ANII-1140 AV 1 200
U133B		finger protein - fruit fly [D.melanogaster]	- 1
			Consensus includes gb:Al887866 /FEA=EST /DB_XREF=gi:5583030
235353 at HG-U133B	KIAA0746	KIAA0746 protein	/DB_XREF=est:tk05c07.x1 /CLONE=IMAGE:2150124 /UG=Hs.127335 ESTs
		ESTs, Weakly similar to S42799 garp	
225350 of HG-11133B		precursor [H.sapiens]	SIS
20000			
		For recentor homolog expressed in B	/DB_XREF=est:UI-HF-BKO-aaw-h-09-0-UI.s1 /CLONE=IMAGE:3055360
			SUS
235372_at_HG-U133B	rked	Sign	

			Consensus includes gb:Al935334 /FEA=EST /DB_XREF=gi:5674204
225285 of HG_11133B	FI.120668	hypothetical protein FLJ20668	/DB_XREF=est:wo82b12.x1 /CLONE=IMAGE:2461823 /UG=Hs.122406 ESTs
~			Consensus includes gb:AL560266 /FEA=EST /DB_XREF=gi:12906564
		Fc receptor homolog expressed in B	/DB_XREF=est:AL560266 /CLONE=CS0DG007YG20 (5 prime) /UG=Hs.266331
235400_at_HG-U133B	FREB	cells	ESTs, Weakly similar to A39878 Fc gamma H.saplens
			Consensus includes gb:AL56U266 /FEA=E31 /Db_ANKI -9:: 1200000
225401 c at HG.		Fc receptor homolog expressed in B	/DB_XREF=est:AL560266 /CLONE=CS0DG007YG20 (5 prime) /UG=ns.zecs31
253401_3_4110	FRFB	· sells	ESTs, Weakly similar to A39878 Fc gamma H.sapiens
U 133B			Consensus includes gb:BF432571 /FEA=EST /DB_XREF=gi:11444722
		ESTs. Weakly similar to S47072 finger	/DB_XREF=est:nac56h08.x1 /CLONE=IMAGE:3406695 /UG=Hs.164102 ES1s,
		protein HZF10, Krueppel-related	Moderately similar to S47072 finger protein HZF10, Krueppel-related
235414 at HG-U133B		[H.sapiens]	H.sapiens
		ESTs, Moderately similar to	1855-25-19-19-19-19-19-19-19-19-19-19-19-19-19-
		ZN91 HUMAN ZINC FINGER PROTEIN	
		of fH caniens	
235421_at_HG-U133B		· Faradas: II to	Consensus includes ab: AA977218 /FEA=EST /DB_XREF=gi:3154664
		nevitor somiodel Alexander	/DB XREF=est:oq25h05.s1 /CLONE=IMAGE:1587417 /UG=Hs.118142 ESTs
235422_at_HG-U133B	FALZ	retal Alzhenner arrugen	Conseque includes ob H78106 /FEA=EST /DB_XREF=gi:1056195
000		TST.	/DB_XREF=est:yu83g09.s1 /CLONE=IMAGE:240448 /UG=Hs.104480 ESTs
235428_at_HG-U133B			Consensus includes gb:Al417897 /FEA=EST /DB_XREF=gi:4261401
225444 of HG-11133B		ESTs	/DB_XREF=est:tg55b06.x1 /CLONE=IMAGE:2112659 /UG=Hs.235860 ESTs
20010-011-18-144-007			Consensus includes gb:AW856618 /FEA=EST /DB_XREF=gi:7952311
		FSTe	/DB_XREF=est:RC3-CT0297-060100-012-e08 /UG=Hs.293702 ESTs
235446_at_HG-U133B			Consensus includes gb:BF114745 /FEA=EST /DB_XREF=gi:10984221
226460 at HG-1133B		ESTs	/DB_XREF=est:7j66h07.x1 /CLONE=IMAGE:3391453 /UG=Hs.136316 ESTs
The corton		Homo saniens cDNA FLJ30906 fis, clone	1
225483 at HG-11133B		FEBRA2006055	
מסיים ביים סובים		ESTE	Consensus includes gb:BF030448 /FEA=EST /DB_XREF=gi:10/38100
235502_at_HG-U133B		6101	

			IDB_XREF=est:601558546F1 /CLONE=IMAGE:3828250 /UG=Hs:79204 ESTs, Moderately similar to ALU1_HUMAN ALU SUBFAMILY J SEQUENCE
			CONTAMINATION WARNING ENTRY INSAPIERS
			Consensus includes gp:AW13/362 /rEA-ES1 /25_AX2 gr. 1
235521_at_HG-U133B	нохаз	homeo box A3	/UG=Hs.222446 ESTs
		ESTs, Weakly similar to Z208_HUMAN	
235604 x at HG-		ZINC FINGER PROTEIN 208	Consensus includes gb:AI758697 /FEA=EST /DB_XREF=gi:5152422
U133B		[H.sapiens]	/DB_XREF=estty23e06.x1 /CLONE=IMAGE:2279938 /UG=Hs.2568U1 ES18
			Consensus includes gb:Al2982/9 /FEA=ES1 / IDB_ARET = B::S55555
235647_at_HG-U133B		ESTs	/DB_AKET=68tqfin3zabo.xi /Ocover in total
			/Onsensus includes gp. Avor 2012 / CLONE=IMAGE:3054876
235674 at HG-U133B		ESTs	/UG=Hs.13849 ESTs
			Consensus includes gb:AW024527 /FEA=ES1 /DB_AREF=g:30/803/
235692_at_HG-U133B	,	ESTs	/DB_XREF=est:w004h07.x1 /CLONE=IMAGE:Z3Z8803 /0G-ns:31922 E015
			Consensus includes gb:AW663908 /FEA=ESI /UB_ARET-y:/ 104-1
		1	/DB_XREF=est:hi73d08.x1 /CLONE=IMAGE:2977935 /UG=Hs.241569 ESTs,
			Moderately similar to ALU7_HUMAN ALU SUBFAMILY SQ SEQUENCE
235706 at HG-U133B	СРМ	carboxypeptidase M	CONTAMINATION WARNING ENTRY H.sapiens
			Consensus includes gb:BE326857 /FEA=EST /DB_XREF=gl:9200033
235719 at HG-U133B		ESTs	/DB_XREF=est:hr65h06.x1 /CLONE=IMAGE:3133403 /UG=HS:99237 E318
			Consensus includes gb:Al057619 /FEA=EST /UB_XREF=gi:3531465
-			/DB_XREF=est:oy31f09.x1 /CLONE=IMAGE: 160/463 /OG=113: 155/12 EC 5
235749 at HG-U133B			Highly similar to T42654 hypothetical protein DKFZp434G1115.1 H.saplens
			Consensus includes gb:Al492051 /FEA=EST /DB_XKEr=gi:4393054
 235753 at HG-11133B		ESTs	/DB_XREF=est:tg06h08.x1 /CLONE=IMAGE:2108031 /UG=Hs.196169 ESTs
235/35_dd_0133B		FSTs	Consensus includes gb:Al498747 /FEA=EST /DB_XREF=gi:4390729
235818_ar_nG-0155B			

			JOB XREF=est.tm64h07.x1 /CLONE=IMAGE:2162941 /UG=Hs.133355 ESTs
		Carolo of COLCOL IT ALIVE	Conseque includes ob Al763000 /FEA=EST /DB_XREF=gi:5178667
		Homo sapiens cDNA FLJ3Z10Z ils, dolle	/OB XREF=est:wi05h10.x1 /CLONE=IMAGE:2389411 /UG=Hs.120155 ESTs
235823_at_HG-U133B			Consensus includes gb:AA677057 /FEA=EST /DB_XREF=gi:2657579
	LC DH1	Ec receptor-like protein 1	/DB_XREF=est:zj59f11.s1 /CLONE=IMAGE:454605 /UG=Hs.180644 ESTs
235962_at_nG-01556			Consensus includes gb:AI076335 /FEA=EST /DB_XREF=gi:3405513
B 1133B		FSTS	/DB_XREF=est:oz04a05.x1 /CLONE=IMAGE:1674320 /UG=Hs.19440 ESTs
Z36019_ar_nG-01336			Consensus includes gb:BF516337 /FEA=EST /DB_XREF=gi:11601516
			/DB_XREF=est:UI-H-BW1-anz-h-12-0-UI.s1 /CLONE=IMAGE:3084166
226400 of HG_11433B		ESTs	/UG=Hs.115772 ESTs, Weakly similar to unknown D.melanogaster
230130_ar_no_5021302			Consensus includes gb:AW294080 /FEA=EST /DB_XREF=gi:6700716
			/DB_XREF=est:UI-H-BI2-ahg-a-04-0-UI.s1 /CLONE=IMAGE:2726670
226226 at HG-11133B		ESTs	/UG=Hs.126808 ESTs
230770-01-077007			Consensus includes gb:Al859834 /FEA=EST /DB_XREF=gi:5513439
			/DB XREF=est:wm21a08.x1 /CLONE=IMAGE:2436566 /UG=Hs.155512 ESTs,
		ESTs Weakly similar to 138022	Weakly similar to ALU5_HUMAN ALU SUBFAMILY SC SEQUENCE
236248_x_ar_nG-			CONTAMINATION WARNING ENTRY H.sapiens
U133B		hypoureucal protein [1::34poureucal	STATE STATE OF BEA38799 (FFA=FST /DB XREF=gi:11451316
		Homo sapiens, clone IMAGE:388/256,	Consensus at a consen
236265 at HG-U133B		mRNA	,
1			Consensus includes gb:Al225238 /FEA=EST /DB_XKEF=gi:380/931
236280 at HG-U133B		ESTs	/DB_XREF=est:qx12c04.x1 /CLONE=IMAGE:2001126 /UG=Hs.1/6920 ES18
			Consensus includes gb:BE676335 /FEA=ESI /DB_AREF=gi.10c3co/0
226202 of UC 11433B		ESTS	/DB_XREF=est:7f27d12.x1 /CLONE=IMAGE:3295895 /UG=Hs.283313 ES18
230233_at_n-0-01302		Washing along IMAGE:3866403	Consensus includes gb:AA789123 /FEA=EST /DB_XREF=gi:2849243
		Homo sapiens, done invade socotos,	CONTROLL OF THE STATE OF THE ST
236301_at_HG-U133B		mRNA	/DB_XREF=est:aaeoruo.sr / / / / / / / / / / / / / / / / / / /
		cytotoxic T-lymphocyte-associated	Consensus includes gb:AI/33018 /rEA=ESI /DB_ANET =9:3001101
1000044 of UC 11433B	CTI A4	protein 4	/DB_XREF=est:oh60h01.x5 /CLONE=IMAGE:1471441 /UG=Hs.313929 ES1S
- +	5	FOT Wookly similar to CIR HIMAN	Consensus includes gb:BF681360 /FEA=EST /DB_XREF=gi:11955255
236378_at_HG-U133B		ESTS, Weakly Smills to Cic.	

		SNK INTERACTING PROTEIN 2-28	IDB_XREF=est:602156549F1 /CLONE=IMAGE:4297261 /UG=HS:231696 E318,
		[H.sapiens]	Weakly similar to A Chain A, Homology-Based Model Of Calcium-Saturated
		. 101	Consensus includes gb:BE875072 /FEA=EST /UB_XKET=gi:10323079 //DB_XREF=est:601485941F1 /CLONE=IMAGE:3888275 /UG=Hs.9002 ESTs
236458_at_HG-U133B		9 0 0	
	522446	hypothetical protein FLJ22116	/OB XREF=est:cr43f07.x1 /CLONE=HBMSC_cr43f07 /UG=Hs.159452 ESTs
236535_at_HG-U135B		EET. Woolly similar to 7295 HIMAN	Consensus includes gb:AW085625 /FEA=EST /DB_XREF=gi:6040777
		ZINC FINGER PROTEIN 295	/DB_XREF=est:xb41d11.x1 /CLONE=IMAGE:2578869 /UG=Hs.186838 ESTs,
226557 of HG-11133B		[H.sapiens]	Weakly similar to Z295_HUMAN ZINC FINGER PROTEIN 295 H.sapiens
20000 at 110-01000			Consensus includes gb:N50912 /FEA=EST /DB_XREF=gi:11920/8
1133B		FSTs	/DB_XREF=est;yy93a05.s1 /CLONE=IMAGE:281072 /UG=Hs.47150 ESTs
236606_at_HG-U1336			Consensus includes ab Al684467 /FEA=EST /DB_XREF=gi:4895761
236648 at HG-U133B		ESTs	// INB_XREF=est:wa82d04.x1 /CLONE=IMAGE:2302663 /UG=Hs.144057 ESTs
			Consensus includes gb:AW014647 /FEA=EST /DB_XKEF=gl:5863404
Off to a paper			/DB_XREF=est:UI-H-BI0p-abd-b-12-0-UI.s1 /CLONE=IMAGE:2711375
230030_s_at_110_		ESTs	/UG=Hs.265499 ESTs
200		P boo onionardadana 3	Consensus includes ab: AA521016 /FEA=EST /DB_XREF=gi: 2261559
000707 to 100	DAPP1	dual adaptor of phospriotyrosine and or phosphologitides	// AB_XREF=est:aa70f04.s1 /CLONE=IMAGE:826303 /UG=Hs.185375 ESTs
230/0/_a(_0.050)	-		Consensus includes gb:AW070437 /FEA=EST /DB_XREF=gi:6025435
236728 at HG-11133B		ESTs	/DB_XREF=est:xa11b11.x1 /CLONE=IMAGE:2567997 /UG=Hs.26330 ESTs
			Consensus includes gb:AW591809 /FEA=EST /DB_XREF=gi:/2/89/4
		בטב	/DB_XREF=est:xx85d08.x1 /CLONE=IMAGE:2850447 /UG=Hs.126630 ESTs
236787_at_HG-U133B		2	
000 H 10 14230		FSTs	/DB_XREF=est:oz07g04.x1 /CLONE=IMAGE:1674678 /UG=Hs.118659 ESTs
230/30_ar_nG-0133B			
236837_x_at_HG-		, HO. L.	ESTs
U133B		EDIS	
236854_at_HG-U133B		ESIS	

PCT/EP02/12303

wo	Λ3	10.30	

			/DB_XREF=est:ny92d07.s1 /CLONE=IMAGE:1285741 /UG=Hs.48984 ESTs
236892_s_at_HG-			Consensus includes gb:BF590528 /FEA=EST /DB_XREF=gi:11682852
U133B	нохве	homeo box B6	
		ה מידי	/DB XREF=est;7a25b09.x1 /CLONE=IMAGE:3219737 /UG=Hs.143905 ESTs
236908_at_HG-U133B			
2000 to 100000		ESTS	/DB_XREF=estxe11g09.x1 /CLONE=IMAGE:2606848 /UG=Hs.131601 ESTs
230914_at_nG-01332			Consensus includes gb:Al821801 /FEA=EST /DB_XREF=gi:5440880
			/DB_XREF=estrnf06c07.x5 /CLONE=IMAGE:1161036 /UG=Hs.168974 ESTs,
			Highly similar to ALU7_HUMAN ALU SUBFAMILY SQ SEQUENCE
225070 of UG-11433B		ESTs	CONTAMINATION WARNING ENTRY H.sapiens -
2309/ 9_al_no-0.1309			Consensus includes gb:AA703523 /FEA=EST /DB_XREF=gi:2713441
227006 at HG-11433B	-	ESTs	/DB_XREF=est:zj12h12.s1 /CLONE=IMAGE:450119 /UG=Hs.24128 ESTs
23/000_81_10_0100			Consensus includes gb:AI871655 /FEA=EST /DB_XREF=gi:5545704
		HO II	/DB XREF=est:we28g08.x1 /CLONE=IMAGE:2342462 /UG=Hs.200815 ESTs
237068_at_HG-U133B		2121	Consensus includes ab:Al695007 /FEA=EST /DB_XREF=gi:4982907
		7.0 I	/DB XREF=est:we45c09.x1 /CLONE=IMAGE:2344048 /UG=Hs.159362 ESTs
237291_at_HG-U133B		212	Conseque includes db:Al539318 /FEA=EST /DB_XREF=gi:4453453
11433B		FSTs	/DB_XREF=est:te45f03.x1 /CLONE=IMAGE:2089661 /UG=Hs.115580 ESTs
23/33/_at_nG-0133B			Consensus includes gb:N71063 /FEA=EST /DB_XREF=gi:1227643
007444 of U.G. 1133B	1.00153516	hypothetical protein BC010563	/DB_XREF=est:za86a11.s1 /CLONE=IMAGE:299420 /UG=Hs.38173 ESTs
23/411_a_119-01301			Consensus includes gb:AW449838 /FEA=EST /DB_XREF=gi:6990614
		,	/DB_XREF=est:UI-H-BI3-akm-d-12-0-UI.s1 /CLONE=IMAGE:2734894
037434 at HG-11133B		ESTs	
20170-12-10-10-10-10-10-10-10-10-10-10-10-10-10-			
227864 at HG-11133B	-	ESTs	/DB_XREF=est:ws29d06.x1 /CLONE=IMAGE:2498603 /UG=Hs.196988 ESTs
23/00-21-2-21-22			
238012 at HG-U133B		ESTs	ESTs

			Consensus includes gb:AA954994 /FEA=EST /DB_XREF=gi:3118689
238022 at HG-U133B		ESTs	ESTs
+	RPL35A	ribosomal protein L35a	Consensus includes gb:Al458020 /FEA=ES1 /UB_XREF=gr.4512030 Consensus includes gb:Al458020 /FEA=ES1 /UB_XREF=est:tj66e05.x1 /CLONE=IMAGE:2146496 /UG=Hs.293287 ESTs
238030 at HG-11338		ESTs, Moderately similar to A53959 thromboxane A-2 receptor, endothelial IH sapiens]	ESTs
			Consensus includes gb:BG505277 /FEA=EST /DB_XREF=gi:13466794 //DB_XREF=est:602551757F1 /CLONE=IMAGE:4663982 /UG=Hs.100501 ESTs, Highly similar to AT1C_HUMAN POTENTIAL PHOSPHOLIPID-
238055_at_HG-U133B			TRANSPORTING ATPASE IC 11.34 piens
238057 at HG-U133B		Homo sapiens mRNA; cDNA DKFZp451H032 (from clone DKFZp451H032)	Consensus includes gb:AW195800 /FEA=EST /DB_XREF=gi:6475020 /DB_XREF=est:xn41b09.x1 /CLONE=IMAGE:2696249 /UG=Hs.149401 ESTs
			Consensus includes gb:Al733027 /FEA=ES1 / IDB_XREF=9i:3034145 /DB_XREF=est:oj14a06.x5 /CLONE=IMAGE:1492114 /UG=Hs.292718 ESTs, Weakly similar to RET2_HUMAN RETINOL-BINDING PROTEIN II,
238066_at_HG-U133B	RBP7	retinoid binding protein 7	CELLULAR H.sapiens
238155_at_HG-U133B		ESTs	Consensus Includes gp.Alcobezas II EX EST INCLUSE INCLUSION INCLUSIO
238208 at HG-U133B		ESTs	Consensus includes gp.noos/10 intra-tol integration grant june integration includes gp.noos/10 integration integra
238304_at_HG-U133B		ESTs	Consensus includes gb:R45137 /FEA=ES1 /DB_AREF=9:023431 // ICLONE=IMAGE:34825 /UG=Hs.21868 ESTs
238365_s_at_HG- U133B			Consensus includes gb:Al638342 /FEA=EST /DB_XREF=gi:4690576 //DB_XREF=est:tt09g10.x1 /CLONE=IMAGE:2240322 /UG=Hs.158272 ESTs
238367_s_at_HG-		ESTs, Weakly simitar to CA13 MOUSE	

Corri		COLI AGEN ALPHA 1(III) CHAIN	IDB_XREF=est:UI-H-BIOp-aau-a-12-0-UI.s1 /CLONE=IMAGE:2710558
UlssB		PRECURSOR [M.musculus]	/UG=Hs.158272 ESTs
		Homo sapiens cDNA FLJ30967 fis, clone	C 10 C 0 C 7
		HEART2000309, weakly similar to PTB-	Consensus includes gb:Al436581 /FEA=EST /DB_XREF=gi:4202042
220276 of HG.11133B		ASSOCIATED SPLICING FACTOR	/DB_XREF=est;ti03d04.x1 /CLONE:=IMAGE:2129383 /UG=Hs.169/38 ES18
23030-01-0-010-01000			Consensus includes gb:AW301504 /FEA=EST /DB_XREF=gi:6/11181
238392 at HG-U133B		ESTs	/DB_XREF=est:xs78a03.x1 /CLONE=IMAGE:2775724 /UG=Hs.145480 ESTs
l		bone morphogenetic protein receptor,	Consensus includes gb:BF247383 /FEA=EST /DB_XKEF=gi:11102/30
238516 at HG-U133B	BMPR2	type II (serine/threonine kinase)	- 1
		ESTs, Weakly similar to YCD1_HUMAN	Consensus includes gb:BG0239/4 /FEA=E31 /bb_ARLI -g::127339/6
		HYPOTHETICAL PROTEIN CGI-131	/DB_XREF=est:602303676F1 /CLONE=IMAGE:4394946 /UG=HS.1536/9 ES18,
238583 at HG-11133B		[H.sapiens]	Weakly similar to AF151889 1 CGI-131 protein H.sapiens
100000		nworkon/lated unknown	Consensus includes gb:Al927919 /FEA=EST /DB_XREF=gi:5663663
00011 011	MGC45437	substrate	/DB_XREF=est:wp03d11.x1 /CLONE=IMAGE:2463765 /UG=Hs.187625 ESTs
23858/_at_HG-U193B			Consensus includes gb:AW962511 /FEA=EST /DB_XREF=gi:8152347
		,	/DB XREF=est:EST374584 /UG=Hs.152003 ESTs
238593_at_HG-U133B		2 2 2	Consensis includes ab: AA768884 /FEA=EST /DB_XREF=gi:2820122
00000		FSTS	/DB_XREF=est:nz82e07.s1 /CLONE=IMAGE:1301988 /UG=Hs.140489 ESTs
Z38604_ar_nG-U133B			Consensus includes ab:BF512491 /FEA=EST /DB_XREF=gi:11597593
			/DB_XREF=est:UI-H-BI3-alw-h-01-0-UI.s1 /CLONE=IMAGE:3069144
1133B		ESTs	/UG=Hs.23096 ESTs
Z30031_a(_10-01)			Consensus includes gb:AW419203 /FEA=EST /DB_XREF=gi:6947135
0.0000		TSTs.	/DB_XREF=est:xu31b03.x1 /CLONE=IMAGE:2801741 /UG=Hs.313541 ESTs
238652_at_HG-U153B			Consensus includes gb:AA130258 /FEA=EST /DB_XREF=gi:1691420
000000	EBXO3	F-hox only protein 3	/DB_XREF=est:z/29c04.r1 /CLONE=IMAGE:503334 /UG=Hs.332421 ESTs
238686_at_HG-U133B			Consensus includes gb:AW083576 /FEA=EST /DB_XREF=gi:6038728
0207E0 04 UC.11433B		ESTS	/DB_XREF=est:xc18g08.x1 /CLONE=IMAGE:2584670 /UG=Hs.218707 ESTs
230/30_ar_D-0:20/30/		HOLL	Consensus includes gb:AA780295 /FEA=EST /DB_XREF=gi:2839626
238752_at_HG-U133B		ESIS	

			JOB XRFF=est:af55h01.s1 /CLONE=IMAGE:1035601 /UG=Hs.122155 ESTs
			Consensus includes ab:Al860012 /FEA=EST /DB_XREF=gi:5513628
100 H 33B		ESTs	/DB_XREF=est:wm22g09.x1 /CLONE=IMAGE:2436736 /UG=Hs.41294 ESTs
238/30_ar_nG-0133B			Consensus includes gb:BE738988 /FEA=EST /DB_XREF=gi:10152890
		FSTs Weakly similar to lectin-like NK	/DB_XREF=est:601556050F1 /CLONE=IMAGE:3825757 /UG=Hs.156100 ES1s,
		S	Weakly similar to c-type lectin DCL1 M.musculus
238790_at_HG-U133B			Consensus includes gb:AA282536 /FEA=EST /DB_XREF=gi:1925451
		Tests Meakly similar to hypothetical	/DB XREF=est:zs90d12.s1 /CLONE=IMAGE:704759 /UG=Hs.267124 ESTs,
		contain El 120378 [Homo sapiens]	Weakly similar to ALU6_HUMAN ALU SUBFAMILY SP SEQUENCE
		The saviens!	CONTAMINATION WARNING ENTRY H.sapiens
238791_at_HG-U133B		incapients	Consensus includes gb:BF844863 /FEA=EST /DB_XREF=gi:12200/93
		Homo saple is color in the colo	/DB_XREF=est:MR1-HT1136-221200-009-g07_/UG=Hs.145569_ESTs
238824_at_HG-U133B		BKAWHZUU/ UOS	Conseque includes ob BG108346 /FEA=EST /DB_XREF=gi:12602192
238856_s_at_HG-		Homo sapiens, clone MGC:17/U8	COLISCINGS COLONE CLONE MAGE: 4368180 /UG=Hs.72045 ESTs
U133B		IMAGE:3868595, mRNA, complete cds	/DB_ANET-=581:00442050501
			Colliseristas included garacter (CI ONE=IMAGE:3183614 /UG=Hs.144616 ESTs,
		ESTs, Weakly similar to 810024G UKF 2	/UB_ANET-est.inwaigeonal recommendation of the sapiens
239054 at HG-U133B		[H.sapiens]	Weakly similal to the confidence of the XRFF-at 5769367
			Consensus includes gp.Al9/2431 ILA-E01 (25-24)
239071 at HG-11133B		ESTs	/DB_XREF=est:wr39h05.x1 /CLONE=IMAGE:2430103 /0G=113:115031
2000 01 18 10007		,	Consensus includes gb.Al638155 /FEA=ESI /UB_ARET-yl.4030000
	•	interferikin 24	/DB_XREF=est:ts97a11.x1 /CLONE=IMAGE:2239196 /UG=Hs.176430 E518
239122_at_HG-U133B	174		Consensus includes gb:AW263526 /FEA=EST /DB_XREF=gi:6640342
		H	/DB_XREF=est:xn80d07.x1_/CLONE=IMAGE:2700781_/UG=Hs.243023_ES1s
239152_at_HG-U133B			Consensus includes gb:AA806831 /FEA=EST /DB_XREF=gi:2876407
		A H	/DB_XREF=est:oc29b08.s1 /CLONE=IMAGE:1351095 /UG=Hs.123244 ESTs
239214_at_HG-U135B			Consensus includes gb:Al342246 /FEA=EST /DB_XREF=gi:40/91/3
		, to	/DB XREF=est:qt26g09.x1 /CLONE=IMAGE:1949152 /UG=Hs.50125 ESTs
239229_at_HG-U133B		NAME OF THE PROPERTY OF THE PARTY OF THE PAR	Consensus includes qb:BE464819 /FEA=EST /DB_XREF=gi:9510513
239231_at_HG-U133B		ESTs, Weakly similar to ALCC_noway	

PCT/EP02/12303

WO 03/039443				
	wa	\mathbf{n}_{2}	ハつの	442
	wu	11.3	11.33	44.

		SO O WARPING ENTRY !!!	/DB_XREF=est:hs87d03.x1 /CLONE=IMAGE:3144197 /UG=Hs.6316/ ES15,
			CLASS C WARNING ENTRY !!!
		[H.sapiens]	Weakly similar to ALUC_numban iiii ALO Carco
			H.sapiens
			Consensus includes gb:BE905194 /FEA=ES1 /UB_ANET Bi: 1000000000000000000000000000000000000
220263 at HG-11133B		ESTs	/DB_XREF=est:601499220F1 /CLONE=IMAGE:3901109 /UG=Hs.9/855 ES18
23203_41_10_0107		FOT Modely similar to 10.5238	
		ESTS, Weakly Sittling to Secret	Commercial Idea oh. Al471969 /FEA=EST /DB_XREF=gi:4334059
	•	galactosytceramide-like protein, GCP	College Surgery of College State 182606 ESTS
220278 at HG-11133B		[H.sapiens]	/DB_XREF=estti85a12.x1 /CLONE=INAGE.z.rt.czc
73270 - 41 - 13 - 21 - 22 - 22 - 22 - 22 - 22 - 2			Consensus includes gb:Al862518 /FEA=E51 /Jun_74751 g:301-1518
1133B		ESTs	/DB_XREF=est:wj15a03.x1 /CLONE=IMAGE:2402860 /0G=ns.15053 = 2007
2392/9_ar_nG-01350			Consensus includes gb:AA769410 /FEA=ES1 /UB_XRET=gl:2020040
000000 TO 11493B		ESTs	/DB_XREF=est:nz38f06.s1 /CLONE=IMAGE:1290083 /UG=Hs.128654 ES18
23928/_at_HG-U133B			Consensus includes gb: AA825563 /FEA=EST /DB_XKEr=gi.zo30073
		o Loui	/DB_XREF=est:od55c12.s1 /CLONE=IMAGE:1371862 /UG=Hs.124786 ESTs
239292_at_HG-U133B		E313	
		ESTs, Moderately similar to loudur pela-	SA024E20 /FEA=FST /DB XREF=qi:3085925
5H +0 000000		galactosidaše, alpha peptide -	Consensus includes go:AASS1555 A CONSENSUS INCLUDES 293056 ESTS
238302_s_at_rtG-		Escherichia coli [F coli]	
U133B			Consensus includes ab:AW510927 /FEA=EST /DB_XREF=gi:7149005
			Collection: Part of ICI ONE=IMAGE:2912075 /UG=Hs.125243 ESTs
239393 at HG-U133B		ESTs	IDB AKET-ESTINATION OF THE AFET IN XREF-01:11681503
		ESTs. Moderately similar to	Consensus includes go:Brocella includes go:Brocella includes go:Brocella includes 173776 ESTs.
		ALLE HIMAN ALL SUBFAMILY J	/DB XREF=est:nab28d04.x1 /CLONE=IMAGE:325/125 /UG=13:17017
		ALOI THOMAN ALO COST SETTING	Manderstely similar to ALU1 HUMAN ALU SUBFAMILY J SEQUENCE
		SEQUENCE CONTAMINATION	Moderated Smiles To Anna Parish H Sabiens
220442 of HG-11133B		WARNING ENTRY [H.sapiens]	CONTAMINATION WARNING LINES 113-1707 PB YEEE-01:5177078
239442_ar_ng-01355			Consensus includes gb:AI761411 /FEA=ESI /DB_ANET-gi:317733
239478_x_at_HG-			INB XRFF=est:wq65c03.x1 /CLONE=IMAGE:2369956 /UG=Hs.169812 ESTs
U133B		ESIS	Conseque includes ab:BG548811 /FEA=EST /DB_XREF=gi:13547489
			Consensus margines and Consensus Appendix Append
239538 at HG-U133B		ESTs	/DB_XREF=est:6025/6251F1 /CLONE=invActin Control / Invactor / I
		ESTS	Consensus includes go. AASassaco il En-Eo.
239597_at_HG-U133B			

	Š		/DB_XREF=est:ot96g10.s1 /CLONE=IMAGE:1624674 /UG=Hs.159983 ESTs
		ESTs, Weakly similar to chondroitin 4-	
		sulfotransferase [Homo sapiens]	Consensus includes gb:AA677272 /FEA=EST /DB_XREF=gi:2657794
239647_at_HG-U133B		[H.sapiens]	/DB_XREF=est:zj61c03.s1 /CLONE=IMAGE:454756 /UG=Hs.117048 ESTs
			Consensus includes gb:BE671583 /FEA=EST /DB_XREF=gi:10032124
239651_at_HG-U133B		ESTs	/DB_XREF=est:7e54c10.x1 /CLONE=IMAGE:3286290 /UG=Hs.189394 ESTs
			Consensus includes gb:AI871160 /FEA=EST /DB_XREF=gi:5545128
239679_at_HG-U133B		ESTs	/DB_XREF=est:wi79g10.x1 /CLONE=IMAGE:2431170 /UG=Hs.163778 ESTs
239699_s_at_HG-			Consensus includes gb:AW195920 /FEA=EST /DB_XREF=gi:6475150
U133B		ESTs	/DB_XREF=est:xn86g08.x1 /CLONE=IMAGE:2701406 /UG=Hs.144252 ESTs
		1	Consensus includes gb:A1125255 /FEA=EST /DB_XREF=gi:3593769
239791_at_HG-U133B H	нохве	homeo box B6	/DB_XREF=est:qd87h09.x1 /CLONE=IMAGE:1736513 /UG=Hs.269918 ESTs
239824_s_at_HG-			Consensus includes gb:BF971873 /FEA=EST /DB_XREF=gi:12339088
	MGC10744	hypothetical protein MGC10744	/DB_XREF=est:602240462F1 /CLONE=IMAGE:4328990 /UG=Hs.25092 ESTs
			Consensus includes gb:AA669114 /FEA=EST /DB_XREF=gi:2630613
239835_at_HG-U133B K	KIAA1842	KIAA1842 protein	/DB_XREF=est:aa81h02.s1 /CLONE=IMAGE:827379 /UG=Hs.116665 ESTs
			Consensus includes gb:AW291535 /FEA=EST /DB_XREF=gi:6698171
		1	/DB_XREF=est:UI-H-BI2-agk-b-12-0-UI.s1 /CLONE=IMAGE:2724454
239956_at_HG-U133B		ESTs	/UG=Hs.254980 ESTs
		1	Consensus includes gb:AW664903 /FEA=EST /DB_XREF=gl:7457447
240061_at_HG-U133B		ESTs	/DB_XREF=est:hi85e04.x1 /CLONE=IMAGE:2979102 /UG=Hs.186649 ESTs
		ESTs, Weakly similar to A49175 Motch B	Weakly similar to A49175 Motch B Consensus includes gb:AI633523 /FEA=EST /DB_XREF=gi:4684853
240106_at_HG-U133B		protein - mouse [M.musculus]	/DB_XREF=estth68b11.x1 /CLONE=IMAGE:2123805 /UG=Hs.44705 ESTs
		ESTs, Weakly similar to ALU7_HUMAN	Consensus includes gb:AI732466 /FEA=EST /DB_XREF=gi:5053579
		ALU SUBFAMILY SQ SEQUENCE	/DB_XREF=est:zn87g06.x5 /CLONE=IMAGE:565210 /UG=Hs.193133 ESTs,
		CONTAMINATION WARNING ENTRY	Weakly similar to ALU7_HUMAN ALU SUBFAMILY SQ SEQUENCE
240113_at_HG-U133B		[H.sapiens]	CONTAMINATION WARNING ENTRY H.sapiens
240201_at_HG-U133B		ESTs	Consensus includes gb:AI821995 /FEA=EST /DB_XREF=gi:5441074

PCT/EP02/12303

			/DB_XREF=est:ok97f07.x5 /CLONE=IMAGE:1521925 /UG=Hs.130173 ESTs
			Consensus includes ab:N63953 /FEA=EST /DB_XREF=gi:1211782
000000 of UC 1133B	FI 114779	hypothetical protein FLJ14779	2 ESTs
Z40Z39_al_nG-01335		16.	
000000		ESTS	/DB_XREF=est:nab22d01.x1 /CLONE=IMAGE:3266712 /UG=Hs.164923 ESTs
240269_ar_nG-01336			066
		,	/DB_XREF=estUI-H-BI1-aei-g-02-0-UI.s1 /CLONE=IMAGE:2719658
240440 of HC-11133B	ZNE341	zinc finger protein 341	/JG=Hs.244601 ESTs
240443_at_110-01005	—⊸		Consensus includes gb:BF436632 /FEA=EST /DB_XREF=gi:11449031
240672 s at HG.		ESTs, Weakly similar to lectin-like NK	/DB_XREF=est:7p09b02.x1 /CLONE=IMAGE:3645243 /UG=Hs.156100 ES1s,
2403/2_5_di_110-		cell receptor [Homo sapiens] [H.sapiens]	Weakly similar to c-type lectin DCL1 M.musculus
Ulasa			Consensus includes gb:AW007727 /FEA=EST /DB_XREF=gi:5856505
040504 of HG-11133R		ESTs	/DB_XREF=est:wt68d07.x1 /CLONE=IMAGE:2512621 /UG=Hs.132650 ESTs
Z40301_ar_rio-01330			Consensus includes gb:AW182300 /FEA=EST /DB_XREF=gi:6450/60
		c Ho	/DB XREF=est:xj41a03.x1 /CLONE=IMAGE:2659756 /UG=Hs.112612 ESTs
240740_at_HG-U133B		E013	Consensus includes ab:BE671136 /FEA=EST /DB_XREF=gi:10031677
		ļ	//DB XREF=est;7e46d12.x1 /CLONE=IMAGE:3285527 /UG=Hs.243602 ESTs
240785_at_HG-U133B		ESIS	Cassans includes ab N56968 /FEA=EST /DB_XREF=gi:1200858
			/DB_XREF=est.yy56b01.s1 /CLONE=IMAGE:277513 /UG=Hs.46707
GC611 OIL 1- 100010	C210f37	chromosome 21 open reading frame 37	chromosome 21 open reading frame 37
240801_at_HG-U133B	_		Consensus includes gb:AA853996 /FEA=EST /DB_XREF=gi:2941534
			/DB_XREF=est.aj52a02.s1 /CLONE=IMAGE:1393898 /UG=Hs.269757 ES1s,
00071		FSTs	Weakly similar to B34087 hypothetical protein H.sapiens
240842_at_HG-U133B			Consensus includes gb:AW471181 /FEA=EST /DB_XREF=gi:7041287
241353_s_at_HG-	1349	F 2 L	/DB_XREF=est:xv13b04.x1_/CLONE=IMAGE:2812975_/UG=Hs.160874_ESTs
U133B		Eols	Consensus includes ab:AA278233 /FEA=EST /IDB_XREF=gi:1920173
		FST	/DB_XREF=est:zs77a10.r1 /CLONE=IMAGE:703482 /UG=Hs.100691 ESTs
241370_at_HG-U133B		2 1	Consensus includes gb:H05959 /FEA=EST /DB_XREF=gi:869511
241383_at_HG-U133B		ESIS	

			/DB XREF=est:y176d05.s1 /CLONE=IMAGE:44004 /UG=Hs.62189 ESTs
			Consensus includes ab:AL572553 /FEA=EST /DB_XREF=gi:12930934
	_		/DB_XREF=est:AL572553 /CLONE=CS0DI008YD03 (3 prime) /UG=Hs.145990
044206 of U.C. 11433B		ESTs	ESTs
241332_al_nG-0132			Consensus includes gb:N92599 /FEA=EST /DB_XREF=gi:1264909
		באנים	/DB_XREF=est:zb27d04.s1 /CLONE=IMAGE:304807 /UG=Hs.130694 ESTs
241421_at_HG-U133B		2	Consensus includes gb:AI973033 /FEA=EST /DB_XREF=gi:5769859
241464_s_at_HG-		i i	/DB XREF=est:wr46g03.x1 /CLONE=IMAGE:2490772 /UG=Hs.126691 ESTs
U133B		EOI S	Consensus includes ab:AA156795 /FEA=EST /DB_XREF=gi:1728410
		i i	// IDB XREF=estzi20a03.s1 /CLONE=IMAGE:502444 /UG=Hs.62772 ESTs
241483_at_HG-U133B		ESIS	Consensus includes ab:AV700191 /FEA=EST /DB_XREF=gi:10302162
			INB XREF=est:AV700191 /CLONE=GKCEKG11 /UG=Hs.132051 ESTs
241525_at_HG-U133B	-	ESIS	
		Homo sapiens cDNA FLJZ5Z86 fis, ciorie	COURSELISTED AND SOUR STATE OF THE STATE OF
241734 at HG-U133B		STM06909	IDB_XKEF=est.usoeco.xi /occord.msceed /nb xRFF=oi:5885930
			Consensus includes gb:AVVUZ/11/4 / FEA-ES1 / DZ-X1XE1 8::
			/DB_XREF=est:wt72c10.x1 /CLONE=IMAGE:2513010 /UG=Hs.Z392/6 E51s,
	,		Weakly similar to FYB_HUMAN FYN-BINDING PROTEIN H.sapiens
241742_at_HG-U133B	PRAM-1	PRAIN-1 plotein	Consensus includes ab: AA829836 /FEA=EST /DB_XREF=gi:2902935
		j.	// AB XREF=est:od40c07.s1 /CLONE=IMAGE:1370412 /UG=Hs.59504 ESTs
241754_at_HG-U133B		ESIS	Consensus includes ab: AA678073 /FEA=EST /DB_XREF=gi:2658595
	i i		ON SCIENCE MINISTER ST. 712012 ST /CLONE=IMAGE: 430630 /UG=Hs. 129827 ESTs
241795_at_HG-U133B		ESTS	Consensus includes ob:BF509144 /FEA=EST /DB_XREF=gi:11592442
			/DB_XREF=est:UI-H-BI4-aov-a-05-0-UI.s1 /CLONE=IMAGE:3086097
00000		STST	/UG=Hs.202088 ESTs
241810_at_HG-U133B			Consensus includes gb:AA223204 /FEA=EST /DB_XREF=gi:1843/55
241930_x_at_HG-		FSTa	/DB_XREF=est:z/06c05.s1 /CLONE=IMAGE:650696 /UG=Hs.186898 ESTs
U133B			Consensus includes gb:AA150242 /FEA=EST /DB_XREF=gi:1721773
241969 at HG-U133B	ITM2B	integral membrane protein 2B	/DB_XREF=est:zi07c04.s1 /CLONE=IMAGE:491622 /UG=Hs.323529 ESTs,

Highly similar to \$27963 modulator recognition factor 2 Hisapiens
Consensus includes gb:N29850 /FEA=EST /DB_XREF=gi:1148370
// AREF=est:yw94a12.s1 /CLONE=IMAGE:259870 /UG=Hs.44098 ESTs
Consensus includes gb:Al814405 /FEA=EST /DB_XREF=gl:5425520 /
Consensus includes gb:BG477984 /FEA=EST /DB_XREF=gi:13410263
IDB_XREF=est:602522982F1 /CLONE=IMAGE:4641356 /UG=Hs.147801 ESTs
Consensus includes gb: AA826288 /FEA=EST /DB_XREF=gi: 2899600
/DB_XREF=est:od03h09.s1 /CLONE=IMAGE:1358177 /UG=Hs.191782
Weakly similar to ALU1_HUMAN ALU SUBFAMILY J SEQUENCE
CONTAMINATION WARNING ENTRY H.sapiens
Consensus includes gb:AA505323 /FEA=EST /DB_XREF=gi:2241460
/DB_XREF=est:nh83c08.s1 /CLONE=IMAGE:965102 /UG=Hs.151609 ESTs
Consensus includes gb:H12084 /FEA=EST /DB_XREF=gi:876904
/DB_XREF=est:ym11g10.s1 /CLONE=IMAGE:47703 /UG=Hs.31110 ESTs,
Weakly similar to MAGE-B4 H.sapiens
Consensus includes gb:AW071804 /FEA=EST /DB_XREF=gi:6026729
/DB_XREF=est:ws53h03.x1 /CLONE=IMAGE:2500949 /UG=Hs.152541 ESTs
Consensus includes gb:BF592008 /FEA=EST /DB_XREF=gi:11684332
/DB_XREF=est:7035e09.x1 /CLONE=IMAGE:3576280 /UG=Hs.87372 ESTs
Consensus includes gb:AW576600 /FEA=EST /DB_XREF=gi:7248139
/DB_XREF=est:UI-HF-BR0p-ajy-c-07-0-UI.s1 /CLONE=IMAGE:3076212
/UG=Hs.123581 ESTs
Consensus includes gb:AW518888 /FEA=EST /DB_XREF=gi:7156970
/DB_XREF=est:ha45g06.x1 /CLONE=IMAGE:2876698 /UG=Hs.40937 ESTs
Consensus includes gb:AW960707 /FEA=EST /DB_XREF=gi:8150391
/DB_XREF=est:EST372778 /UG=Hs.148324 ESTs
Consensus includes gb:AW771952 /FEA=EST /DB_XREF=gi:7704001

		IMB321000161	/DB_XREF=est:hn66h01.x1 /CLONE=IMAGE:3032881 /UG=Hs.191581 ES1s
		INITIAL TOO I OUT	Consensus includes gb:Al800895 /FEA=EST /DB_XREF=gi:5366367
			/DB XREF=estwg14b02.x1 /CLONE=IMAGE:2365035 /UG=Hs.131929 ESTs,
		ESTs. Weakly similar to neuronal thread	ESTs. Weakly similar to neuronal thread Weakly similar to ALU8_HUMAN ALU SUBFAMILY SX SEQUENCE
		protein [Homo sapiens] [H.sapiens]	CONTAMINATION WARNING ENTRY H.sapiens
242448_at_HG-U133B			Consensus includes gb:AA721230 /FEA=EST /DB_XREF=gi:2737365
		r.	/DB_XREF=est:nz72b04.s1 /CLONE=IMAGE:1300975 /UG=Hs.102398 ESTs
242458_at_HG-U133B			Consensus includes gb:Al620827 /FEA=EST /DB_XREF=gi:4629953
		ESTs Weakly similar to A32891 finger	/DB_XREF=est:tu86c12.x1 /CLONE=IMAGE:2257942 /UG=Hs.116391 ESTs,
242463_x_at_HG-		protein 1. placental [H.sapiens]	Weakly similar to A32891 finger protein 1, placental H.sapiens
U133B			Consensus includes gb:AW511110 /FEA=EST /DB_XREF=g:/149188
242520_s_at_HG-		FSTe	/DB_XREF=est:hd43d06.x1 /CLONE=IMAGE:2912267 /UG=Hs.193754 ESTs
U133B			Conseque includes ab: AA747436 /FEA=EST /DB_XREF=gi:2787394
		ļ	// AB XREF=est:nx88f10.s1 /CLONE=IMAGE:1269355 /UG=Hs.163105 ESTs
242525_at_HG-U133B		ESIS	Conseques includes ab.AV692159 /FEA=EST /DB_XREF=gi:10294022
		ATP-binding cassette, sub-ramily A	Collegists increase of ONE=GKCAOB12 /UG=Hs.301496 ESTs
242644 at HG-11133B	ABCA9	(ABC1), member 9	/DB_XKEF=est.Avesz.138 /occivit Civit Civi
—↑			Consensus includes gb:AA829635 /FEA=ESI /DB_ARET-9:25321
		1	/DB_XREF=est:od35a09.s1 /CLONE=IMAGE:1369912 /UG=Hs.186589 ES1s,
:			Weakly similar to ALU7_HUMAN ALU SUBFAMILY SQ SEQUENCE
242633_x_at_HG-		,	CONTAMINATION WARNING ENTRY H.sapiens
U133B		E318	Consensus includes gb:BF512254 /FEA=EST /DB_XREF=gi:11597433
			/DB_XREF=est:Ul-H-BW1-amb-a-09-0-UI.s1 /CLONE=IMAGE:3069209
		LECTO	/UG=Hs.126767 ESTs
242695_at_HG-U133B			Consensus includes gb:BE551384 /FEA=EST /DB_XREF=gi:9793076
		ESTs Moderately similar to 138344 titin,	/DB_XREF=est:7b64a09.x1 /CLONE=IMAGE:3232984 /UG=Hs.166999 ESTs,
1		Louding muscle [H saniens]	Moderately similar to 138344 titin, cardiac muscle H.sapiens
242729_at_HG-U133B		Caldida III aske II sakara	Consensus includes gb:BG402859 /FEA=EST /DB_XREF=gi:13296307
242738_s_at_HG-		, in the second	/DB XREF=est:602418552F1 /CLONE=IMAGE:4525500 /UG=Hs.163208 ESTs
U133B		ESIS	
			•

	03/03	1944	<u> </u>		т												<u> </u>		-		P	C 17	EPU	2/1	2303
Consensus includes gb:Al684761 /FEA=EST /DB_XREF=gi:4896055 /DB_XREF=est:wa85h04.x1 /CLONE=IMAGE:2302999 /UG=Hs.201552 ESTs,	VedaNy Sillina to 17250 1970 Consensus includes gb:Al366780 /FEA=EST /DB_XREF=gi:4136525	/DB_XREF=est:qq41d08.x1 /CLONE=IMAGE:1935087 /UG=Hs.144995 ESTs	Consensus includes gb:BF509229 /FEA=EST /DB_XREF=gi:1159252/	/DB_XREF=est:UI-H-BI4-aow-a-04-0-UI.s1 /CLONE=IMAGE:3086118	/UG=Hs.147381 ESTs	Consensus includes gb:AW292329 /FEA=EST /DB_XREF=gi:6698965	/DB_XREF=est:UI-H-BI2-agy-h-05-0-UI.s1 /CLONE=IMAGE:2726240	/UG=Hs.163481 ESTs	Consensus includes gb:AV753357 /FEA=EST /DB_XREF=gi:10911205	/DB_XREF=est:AV753357 /CLONE=NPDAVC03 /UG=Hs.159354 ESTs	Consensus includes gb:AW194766 /FEA=EST /DB_XREF=gi:6473684	/DB_XREF=est:xn31a04.x1 /CLONE=IMAGE:2695278 /UG=Hs.209382_ESTs	Consensus includes qb:R06738 /FEA=EST /DB_XREF=gi:757358	/DB_XREF=est:yf11a03.s1 /CLONE=IMAGE:126508 /UG=Hs.220823 ESTs	Consensus includes qb:A1024029 /FEA=EST /DB_XREF=gi:3239073	/DB_XREF=est:ow70f06.s1 /CLONE=IMAGE:1652195 /UG=Hs.293707 ESTs,	Weakly similar to 138598 zinc finger protein ZNF132 H.sapiens	Consensus includes gb:AA211369 /FEA=EST /DB_XREF=gi:1810023	/DB_XREF=est:zp51h10.s1 /CLONE=IMAGE:613027 /UG=Hs.269493 ESTs	Consensus includes gb:AA215381 /FEA=EST /DB_XREF=gi:1815191	/DB_XREF=est:zr97c09.s1 /CLONE=IMAGE:683632 /UG=Hs.86650 ESTs	Consensus includes gb:BF980709 /FEA=EST /DB_XREF=gi:12383456	/DB_XREF=est:602303749F1 /CLONE=IMAGE:4395156 /UG=Hs.32406 ESTs	Consensus includes gb:AA992805 /FEA=EST /DB_XREF=gi:3178539	/DB_XREF=est:0t85a07.s1 /CLONE=IMAGE:1623540 /UG=Hs.171865 ESTs
	synaptic nuclei expressed gene z	-		,	ESTs			ESTs		GNAS complex locus	FI 131360 fis clone	MESANODOS72		i.		FSTs Weakly similar to 138598 zinc	finger protein ZNF132 [H.sapiens]		ESTs		FSTs		FSTs		lymphoid enhancer-binding factor 1
	SYNE-2				•					SANAS	2														LEF1
	242774_at_HG-U133B 8	242845 at HG-U133B		242866 x at HG-	11133B			242032 at HG-11133B	242332_al_10-0100	242972_s_al_nG-		000000	243000_at_HG-U133B	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	243020_al_nG-0133B		243024 at HG-11133B		243030 at HG-11133B		2424E4 A UC 11433B	Z43134_8L_NG-01335	000000 of UC 11133B	243220_al_nG-01333	243362_s_at_HG- 111338

			Consensus includes ab: AA992805 /FEA=EST /DB_XREF=gi:3178539
243363 at HG-U133B	LEF1	lymphoid enhancer-binding factor 1	ESTs
1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		ESTs	Consensus includes gp:19/9// /reA-ES1 /02_ANA: 5
243493_at_nG-U133B		T. S.	STS
243538_at_HG-U133B			Consensus includes gb:BF029215 /FEA=EST /DB_XREF=gi:10/3692/ Consensus includes gb:BF029215 /FEA=EST /DB_XREF=gi:10/3692/
			/DB_XKET=est.com/2211705-2211 Vocation V
243579_at_HG-U133B	MSI2	musashi homolog 2 (Drosophila)	JKTBP H.sapiens Consensus includes gb:AI057226 /FEA=EST /DB_XREF=gi:3331092
243756 at HG-U133B		ESTs	/DB_XREF=est:oz11c08.x1 /CLONE=IMAGE:1675022 /UG=Hs.120855 ESTs
242784 of HG-11133B		ESTs	Consensus includes gp.Avvos3312 // LCC Consensus includes gp.Avvos3312 // LCC CONSENIMAGE: 2606529 /UG=Hs.177164 ESTs
			Consensus includes gb:AW5/5863 /rEA=ES1 /DB_XXL1 _8::.2:
243780_at_HG-U133B		ESTs	/UG=Hs.136232 ESTs Consequence includes ob:Al436580 /FEA=EST /DB_XREF=gi:4282834
243798_at_HG-U133B		ESTs	Objection
243859_at_HG-U133B		ESTs	// IDB_XREF=est.xm71b10.x1 /CLONE=IMAGE:2689627 /UG=Hs.250488 ESTs
243932_at_HG-U133B		ESTs	/DB_XREF=est:qu91a02.x1 /CLONE=IMAGE:1979402 /UG=Hs.149809 ESTs
243968_x_at_HG- U133B		ESTs	Consensus Includes 1927, 102 CONSENSUS INCREMENTATION INCREMEN
244147_at_HG-U133B		ESTs	/DB_XREF=est:zi95c04.s1 /CLONE=IMAGE:448518 /UG=Hs.118088 ESTs
244230_at_HG-U133B		ESTs	

			2 ESTs
			FSTa
244248_at_HG-U133B		ESTs	s 1
244257 at HG-U133B		ESTs	61013
1			Consensus includes gb:AW340139 /FEA=EST /UB_AREF-9:.00507.00
244281 at HG-11133B		ESTs	/DB_XREF=est:hc93h01.x1 /CLONE=IMAGE:2907601 /UG=Hs.105656 E318
244201_81_8182		when to macrophage differentiation-	Consensus includes gb:AW104453 /FEA=EST /DB_XREF=gi:6075188
	MARAD	pe	/DB_XREF=est:xd78b02.x1 /CLONE=IMAGE:2603691 /UG=Hs.99734 ESTs
744323 al 110-0132			Consensus includes gb:AA552017 /FEA=EST /DB_XREF=gi:2322269
044550 of UC 11433B		F.S.T.8	/DB_XREF=est.ng01g11.s1 /CLONE=IMAGE:928196 /UG=Hs.162245 ESTs
Z44550_BL_DG-0155B			Consensus includes ab:AL042699 /FEA=EST /DB_XREF=gi:5422148
			/DB_XREF=est.DKFZp434P0421_s1 /CLONE=DKFZp434P0421 /UG=Hs.209222
244636 at HG-U133B		ESTs	ESTs
			Consensus includes gb:AW444868 /FEA=EST /DB_XREF=gi:5986550
		1	/DB_XREF=est:UI-H-BI3-ajz-a-11-0-UI.s1 /CLONE=IMAGE:2733237
244652 at HGJ 1133B		ESTs	/UG=Hs.190129 ESTs
244032_81_110_0100			Consensus includes gb:BE855713 /FEA=EST /DB_XREF=gi:10368199
		Homo sapiens, clone MGC:9913	/DB_XREF=est:7g08d09.x1 /CLONE=IMAGE:3305873 /UG=Hs.23133 ESTs,
244740 at HG-11133B		IMAGE:3870821, mRNA, complete cds	Weakly similar to A33569 alcohol sulfotransferase R.norvegicus
244/40_01_00_04/44			Consensus includes gb:BF112140 /FEA=EST /DB_XREF=gi:10941830
244876 at HG-U133B		ESTs	/DB_XREF=est:7140g11.x1 /CLONE=IMAGE:3524156 /UG=Hs.191950 ESTs
		CD24 antigen (small cell lung carcinoma	MCD24B Homo sapiens CD24 signal
266_s_at_HG-U133A	CD24	cluster 4 antigen)	transducer mRNA, complete cds and 3' region
		protein phosphatase 3 (formerly 2B),	
		catalytic subunit, gamma isoform	
32541_at_HG-U133A	PPP3CC	(calcineurin A gamma)	3' end /clone=IMAGE-
34210 at HG-U133A	CDW52	CDW52 antigen (CAMPATH-1 antigen)	

			ods (rds=(0.3390) (db=AB011117 /gi=3043613 /ug=Hs.129943 /len=5520
	0000	KIA ADDES pene product	// Acceptance March March
38149_at_HG-U133A	NIAAUUSS		=0820 (from
38269 at HG-U133A	PKD2	protein kinase D2	T
			Cluster Incl. AB014555:Homo sapiens mRNA for KIAA0655 protein, parual
38340 at HG-U133A	HIP12	huntingtin interacting protein 12	cds /cds=(0,3253) /gb=AB014555 /gi=3327123 /ug=Hs.96731 /len=4457
			Cluster Incl. D87433: Human mRNA for KIAA0246 gene, partial cds
20,407 of U.C.11433A	EI 112442	hypothetical protein FLJ12442	/cds=(0,6639) /gb=D87433 /gi=1665760 /ug=Hs.84753 /len=6777
3040/ at 110-0130/	1 50 12-712		Chister Inc. AB007895: Homo sapiens KIAA0435 mRNA, complete cds
39650_s_at_HG-	7	VIAA0435 nana product	/cds=(1195,3528) /gb=AB007895 /gi=2662150 /ug=Hs.31438 /len=5347
U133A	NIAM0433		Charter Inc. 1103181. Homo saniens nuclear dual-specificity phosphatase
			(SBF1) mRNA, partial cds /cds=(0,5095) /gb=U93181 /gi=3015537
30835 at HG-11133A	SBF1	SET binding factor 1	/ug=Hs.112049 /len=5228
		amyloid beta (A4) precursor protein-	Cluster Incl. U62325: Human FE65-like protein (hFE65L) mRNA, partial cds
	caaa	hinding family B member 2 (Fe65-like)	/cds=(0,2194) /gb=U62325 /gi=1657751 /ug=Hs.15740 /len=2896
40148_at_HG-U133A	APBBZ	מווימוו אל ומוווו לבל ווויוו אל ווויוו אל ווייוו אל ווייווו אל ווייוו אלייוו אל ווייוו אל ווייוו אל ווייוו אל ווייוו אל ווייוו אל ווייוו	State 1-1 Mosestations set dene complete cds /cds=(3,836)
		SET translocation (myeloid leukemia-	Cluster Ind. Missoo I. Tullian set Bene, confront
40189 at HG-U133A	SET	associated)	/gb=M93651 /gi=338038 /ug=Hs.1452/9 /len=2302
			Cluster Incl. AB023208:Homo sapiens mRNA for KIAA0991 protein, complete
41220 at HG-U133A	MSF	MLL septin-like fusion	cds /cds=(732,2000) /gb=AB023208 /gi=4589625 /ug=Hs.181002 /len=3938
			Cluster Incl. AI738702:wi22b11.x1 Homo sapiens cDNA, 3' end
		,	/clone=IMAGE-2390973 /clone_end=3' /gb=AI738702 /gi=5100683
41553 at HG-11133A	CBorf1	chromosome 8 open reading frame 1	T
		protein phosphatase 1, regulatory	
41577 at HG-U133A	PPP1R16B	(inhibitor) subunit 16B	cds /cds=(0,1239) /gb=AB020630 /gi=4240131 /ug=Hs.45/19 /len=559/
		cadherin, EGF LAG seven-pass G-type	
41660 at HG-1133A	CELSR1	receptor 1 (flamingo homolog,	receptor Celsr1 (KIAA0279 LIKE EGF-like domain containing protein similar

		Drosophila)	to rat MEG /cds=(0,4433) /gb=AL031588 /gi=4007108 /ug=Hs.123043 /len=6438
			A NO37468 WA 77-ANS x1 Homo sabiens cDNA, 3' end
	-		/clone=IIMAGE-2467808 /clone_end=3' /gb=Al937468 /gi=5676338
A6641 Ott 14 2044	EI 144827	hypothetical protein FLJ14827	
44002 al nG-01334	17051		j69b05.x1 Homo sapiens cDNA, 3' end
			/clone=IMAGE-2408049 /clone_end=3' /gb=AI858000 /gi=5511616
44563 at HG-11133A	FL.110385	hypothetical protein FLJ10385	/ug=Hs.30922 /len=715
		ESTS. Weakly similar to SYN1 MOUSE	Cluster Incl. N31716:yy15c12.s1 Homo sapiens cDNA, 3' end /clone=IMAGE-
44660 at HG-11133A		SYNAPSIN I [M.musculus]	271318 /clone_end=3' /gb=N31716 /gi=1152115 /ug=Hs.31754 /len=624
44009 81 10-01044			Cluster Incl. Al129310:qc48a05.x1 Homo sapiens cDNA, 3' end
44700 s at HG.			/clone=IMAGE-1712816 /clone_end=3' /gb=A1129310 /gi=3597824
44/30_3_ar_10_	FI.121562	hypothetical protein FLJ21562	/ug=Hs.234923 /len=811
500			Cluster Incl. Al421812:tf55a07.x1 Homo sapiens cDNA, 3' end
			Iclone=IMAGE-2103156 Iclone_end=3'
45633 at HG-11133A	FI.113912	hypothetical protein FLJ13912	/ug=Hs.47125 /len=556
12000			Cluster Incl. Al003763:ou91e02.x1 Homo sapiens cDNA, 3' end
		•	/clone=IMAGE-1635194 /clone_end=3' /gb=AI003763 /gi=3213273
A6142 at HG-11133A	F1.112681	hypothetical protein FLJ12681	/lug=Hs.58362 /len=594
7			Cluster Incl. Al890191:wm79f05.x1 Homo sapiens cDNA, 3' end
			/clone=IMAGE-2442177 /clone_end=3' /gb=A1890191 /gi=5595355
49306 at HG-U133A	AD037	AD037 protein	/ug=Hs.239937 /len=674
			Cluster Incl. W22625:71E5 Homo sapiens cDNA /clone=(not-directional)
49485 at HG-11133A	PRDM4	PR domain containing 4	
		Homo sapiens, Similar to transcription	
		factor EB, clone IMAGE:3944945,	/clone=IMAGE-2117789 /clone_end=3' /gb=Al524138 /gi=4438273
50221 at HG-U133A		mRNA, partial cds	
50277 at HG-11133A	GGA1	golgi associated, gamma adaptin ear	Cluster Incl. AW001443:wu31e12.x1 Homo sapiens cDNA, 3' end
30211_at_110_01000	1000		

		containing, ARF binding protein 1	/clone=IMAGE-990785 /clone_end=3' /gb=AW001443 /gi=5848359
	-		3 end
			Cluster Incl. AA134926;zoz3duz.si noino sapiono com que de la company de
51192 at HG-U133A	SSH-3	slingshot 3	
			Cluster Incl. AA868332:ak40nU3.s1
54970 at HG-U133A	DKFZP76112123	KIAA1886 protein	/ug=Hs.77978 /len=481
			Cluster Incl. AA534198:nj21a11.s1
55093 at HG-U133A	KIAA1402	KIAA1402 protein	/ug=Hs.86392 /len=603
			Cluster Incl. AA150165:zlushus.rl rionio sapiens Cara, 2
56256 at HG-U133A	LOC51092	CGI-40 protein	/ug=Hs.20102 /len=576
		1	Cluster Incl. Al806628:wf14g08:x1
56919 at HG-U133A	KIAA1449	WD repeat endosomal protein	/ug=Hs.109778 /len=557
		solute carrier family 24	CONTRACT CON
		(sodium/potassium/calcium exchanger),	Cluster Incl. R62432:yg>ze11.st notice appears 2.1
57588_at_HG-U133A	SLC24A3	member 3	Source Incl. R42449-vo02a07.s1 Homo sapiens cDNA, 3' end /clone=IMAGE-
58780_s_at_HG-	EI 110357	hypothetical protein FLJ10357	30831 /clone_end=3' /gb=R42449 /gi=817213 /ug=Hs.235831 /len=431
Accio		ESTs, Weakly similar to RABB_HUMAN	Cluster Incl. AA582932:nn80a11.s1 Homo sapiens CDNA, 3 enu
		RAS-RELATED PROTEIN RAB-8	/clone_end=3' /gb=AA582932 /gi=2300292
59697_at_HG-U133A		[H.sapiens]	/ug=Hs.21349 /len=614
		protein phosphatase 2, regulatory	
635_s_at_HG-U133A	PPP2R5B	subunit B (B56), beta isoform	phosphatase 2A Boo-beia (FFZA) IIINAN, Compression 23 and 23 and 24 April 24 April 25 April 2
64942_at_HG-U133A		ESTs	

			/clone=IMAGE-2467443 /done_end=3' /gb=Al937160 /gi=56/6030 /ug=ns./30/
			/len=552
			Cluster Incl. AA907940:ol24e02.s1 Homo sapiens cDNA, 3' end
74604 c ct UG			/clone=IMAGE-1524410 /clone_end=3' /gb=AA907940 /gi=3041944
/4034_s_ar_nG	El 123282	hypothetical protein FLJ23282	/ug=Hs.234006 /len=404
Accio			Cluster Incl. AW001436:wu31e04.x1 Homo sapiens cDNA, 3' end
77508 r et HG			/clone=IMAGE-990769 /clone_end=3' /gb=AW001436 /gi=5848352
1133A	FLJ23282	hypothetical protein FLJ23282	/ug=Hs.170253 /len=471
			Cluster Incl. AI654857:wb65b10.x1 Homo sapiens cDNA, 3' end
			/clane=IMAGE-2310523 /clane_end=3' /gb=Al654857 /gi=4738836
App. 11934	BRN1	leucine-rich repeat protein, neuronal 1	_ /ug=Hs.160115 · Лen=621
30010-811-81-01008			M27830 Human 28S ribosomal RNA gene, complete cds (_5, _M, _3
) to a ocozona vira	76671		represent transcript regions 5 prime, Middle, and 3 prime respectively)
AFFX-WZ/830_5_al_nG-0133A	Acc10-6		M27830 Human 28S ribosomal RNA gene, complete cds (_5, _M, _3
	2		represent transcript regions 5 prime, Middle, and 3 prime respectively)
AFFX-M2/830_5_at_HG-U133B	3-U133B		M27830 Human 28S ribosomal RNA gene, complete cds (_5, _M, _3
11 10 000000000000000000000000000000000	, 17.00 V 17.00 V 17.00	·	represent transcript regions 5 prime, Middle, and 3 prime respectively)
AFFX-INZ/830_IN_al_nG-05954	Acc 10-0		Bacillus subtilis /REF=L38424 /DEF=B subtilis dapB, jojF, jojG genes
			corresponding to nucleotides 2634-3089 of L38424 /LEN=1931 (-5, -M, -3
ACEX 20 Be day 3 at HG-11133A	4G-11133A		represent transcript regions 5 prime, Middle, and 3 prime respectively)
יה ה ממים ביוע ווע			Escherichia coli /REF=J04423 /DEF=E coli bioD gene dethiobiotin synthetase
			corresponding to nucleotides 5312-5559 of J04423 /LEN=676 (-5 and -3
AFE 11334	UC 11133A		represent transcript regions 5 prime and 3 prime respectively)
AFFA-rz-Ec-Dion-o_al_	VSC 0-51		

WO 03/039443 PCT/EP02/12303

Table 44

1007_s_at HG-U133A

10

1729_at HG-U133A

200008_s_at HG-U133A

gctcgctgtaagcagctcatctgtgaccccagctacgtaaaagatcgggtagaaaaagtgggccaggtgatcagagttatttgcatcctcagccaccccatcaagaa

20 caccaatgatgccaactcctgccagatcattattccacagaaccaagtcaatcgaaagtcagatatctacgtctgcatgatctcctttgcgcacaatgtagcagcacaa

gggaagtacattgctatagttagtacaactgtggaaaccaaggagcctgagaaggaaatcagaccagctttggagctcttggaaccaattgaaccaattgttag

catcagtgacctcctggtaccaaaagacttgggaacagaaagccagatctttatttcccgcacatatgatgccaccactcattttgaacc

200008_s_at HG-U133B

25 gctcgctgtaagcagctcatctgtgaccccagctacgtaaaagatcgggtagaaaaagtgggccaggtgatcagagttatttgcatcctcagccaccccatcaagaa caccaatgatgccaactcctgccagatcattattccacagaaccaagtcaatcgaaagtcagatatctacgtctgcatgatctcctttgcgcacaatgtagcagcacaa gggaagtacattgctatagttagtacaactgtggaaaccaaggagcctgagaaggaaatcagaccagctttggagctcttggaaccaattgaacagaaatttgttag catcagtgacctcctggtaccaaaagacttgggaacagaaagccagatctttatttcccgcacatatgatgccaccactcattttgagac

30 200023 s_at HG-U133A

ggaggaccatgggagtgatgttcacgcctctgacagtgaaatacgcgtactacgacactgaacgcatcggagttgacctgatcatgaagacctgctttagccccaac agagtgattggactctcaagtgactgcagcagtaggaggggcatcagctcgcatccaggatgccctgagtacagtgttgcaatatgcagaggatgtactgtctgga aaggtgtcagctgacaatactgtggggccgcttcctgatgagcctggttaaccaagtaccgaaaatagttcccgatgactttgagaccatgctcaacagcaacatcaat gaccttttgatggtgacctacctggccaacctcacaggatgcactcaatgaaaaacttgtaaacctgtgaatggacccaagcagcagtacacttgctggtcta

35 ggtattaaccc

200040 at HG-U133A

200047_s_at HG-U133A

WO 03/039443 PCT/EP02/12303

ggttttgtttgctatcttaattttggttgtattctttgatgttaacacattttgtataattgtatcgtatagctgtattgaatcatgtagtatcaaatattagatgtgatttaatagtgttaat caatttaaacccattttagtcacttttttttccaaaaaaatactgccagatgctgatgttcagtgtaatttctttgcctgttcagttacagaaagtggtgctcagttgtagaatgt attgtaccttttaacacctgatgtgtacatcccatgta

5 200047_s_at HG-U133B

ggttttgttttgctatcttaattttggttgtattctttgatgttaacacattttgtataattgtatcgtatagctgtattgaatcatgtagtatcaaatattagatgtgatttaatagtgttaat caatttaaacccattttagtcactttttttttccaaaaaaatactgccagatgctgatgttcagtgtaatttctttgcctgttcagttacagaaagtggtgctcagttgtagaatgt attgtaccttttaacacctgatgtgtacatcccatgta

10 200056 s at HG-U133A

15

200068 s at HG-U133A

cctccqttqacaqtatatqtcatqcctcactttcttctqqctqaqctttaaatcattaqaqcttaaattqtcaqatcqttcattqcctttc

200068_s_at HG-U133B

30 200071 at HG-U133A

35

200072_s_at HG-U133A

cattgagcgcatgggcctggccatgggtggcggtggcggtgccagctttgaccgtgccatcgagatggagcgtggcaacttcggaggaagcttcgcaggttcctttgg
tggagctggaggccatgctcctggggtggccaggaaggcctgccagatatttgtgagaaatctgccattcgatttcacatggaagatgctaaaggacaaattcaacg
agtgcggccacgtgctgtacgccgacatcaagatggagaatgggaagtccaaggggtgtggtggtgtggttaagttcgagtcgccagaggtggccgagagagcctgcc
40 ggatgatgaatggatgaagctgagtggccgagagattgac

200093_s_at HG-U133A

ctggtggcgacacgatctttgggaagatcatccgnnannanataccagccaaaatcatttttgaggatgaccggtgccttgctttccatgacatttcccctcaagcacc aacacattttctggtgatacccaagaaacatatatcccagatttctgtggcagaagatgatgatgatgaagatcttcttggacacttaatgattgttggcaagaaatgtgctgct WO 03/039443 - PCT/EP02/12303

200094_s_at HG-U133A

10 cctccagctgtactagtgccattggaata

200598_s_at HG-U133A

200608_s_at HG-U133A

agaagaagcatctgattaccttgaattgg

25 200620_at HG-U133A

30 ctaaaattccactcctcatagagctttta

200625 s at HG-U133A

aaacccacatgatttcaaggagtctggcattcctgaatccttcttccctgccaggtgcctgtcacctgtcttcactgcctcttttccctgtcatgctcatcgctatggcttct
 gtctaagcacctgaacagaggactgaaacctccactgcaggctggttttaggtcttgaattatgtaagaatcttgcacagcactgctaatgtaaatttcagttgtttttccct
 ctaggacaaacacttaccaaaatatgcaacttttttttggtgggaagagagattgtcctgtgatttctacccatttcctgaggcctgtggaa

200630 x at HG-U133A

200631_s_at HG-U133A

WO 03/039443 PCT/EP02/12303

200646_s at HG-U133A

200649_at HG-U133A

15 teccaagagggtetgetetgageetgetteetaggtggeteggeteagetgettggttgtgeegeectageateetgtatgeecaaagetaetggaateeegetg etgeteegggeeaagettetggttgattaatgagggetggteecteaagacetteecetacettttgtggaaceagtgatgeeteaaagacagtgteeeteea eagetgggtgeeaggggeaggggateeteagtatageeggtgaaeeetgataceaggageetgggeeteeetgaaeeeetggtteeageeateteategeeagee tecteetggaeetettggeeeeageeetteeeeaaageeeeagaagggteeeagagetgaeeeeageeetaggeeeageeeteagee ageeeetgaagaeeagteeeaeeeacetttetggeeteatetgaeaetgeteegeateetgetgtgtgteetgtteeatgtteeagteeaaaaaaeaetttetg

200650_s_at HG-U133A

20

gtcatatcatttcactgtctaggctacaacaggattctaggtggaggttgtgcatgttgtcctttttatctgatctgtgattaaagcagtaatattttaagatggactgggaaaa acatcaactcctgaagttagaaataagaatggtttgtaaaatccacagctatatcctgatgctggatggtattaatcttgtgtagtcttcaactggttagtgtgaaatagttct gccacctctgacgcaccactgccaatgctgtacgtactgcatttgccccttgagccaggtggatgtttaccgtgtgttatataacttcctggctccttcactgaacatgccta gccaacattttttcccagtgagtcacatcctgggatccagtgtataaatccaatatcatgtcttgtgcataattcttccaaa

200654 at HG-U133A

200655_s_at HG-U133A

40 200656_s_at HG-U133A

200659_s_at HG-U133A

10 200661 at HG-U133A

gagtggtttgtggattccctcaaccagaagatggaggtgcagcgccggccctggttagtgaagtacggggacagcggggagcagattgccggcttcgtgaaggagt tctcccacatcgcctttctcacgatcaagggcgccggccacatggttcccaccgacaagcccctcgctgccttcaccatgttctccgcttctgaacaagcagccata ctgatgaccacagcaaccagctccacggcctgatgcagcccctcccagcctctcccgctaggagagtcctcttctaagcaaagtgcccctgcaggcgggttctgccg ccaggactgcccccttcccagagccctgtacatcccagactgggcccagggtctcccatagacagcctgggggaaagttagcactttattcccgcagcagttcctga

15 atggggtggcctggccccttctctgcttaaagaatgccctttatgatgcactgattccatcccaggaacccaacagagctcagga

200665 s at HG-U133A

200673_at HG-U133A

30 200675_at HG-U133A

200679_x_at HG-U133A

 aagccgagaggcaaaatgtcatcatatgcattttttgtgcaaacttgtcgggaggagcataagaagaagcacccagatgcttcagtcaacttctcagagttttctaaga agtgctcagagaggtggaagaccatgtctgctaaagagaaaggaaaatttgaagatatggcaaaagcggaccaaggcccgttatgaaagagaaatgaaaaccta
 tatccctcccaaaggggagacaaaaaaagaagttcaaggatcccaatgcacccaagaggcctccttcggccttcttncctcttctgctctgagtatcgcccaaaaatca aaggagaacatcctggcctgtcc

ggcacctggggctcatggattggccccgaccacgacaagttcagtgccatgaagtatgagcaagggctggtggtggcaggggcccaaccgctccaccaccgt gcgcctcctgtgcgggaaagagaccatggtgaccagcaccacagagcccagtcgctgcgagtacctcatggagctgatgacgccagccgcctgccggagcca ccgcctgaagcacccaccgaagacgaccatgacgagctctagctggatgggcgcagagaacctcaagaa

5 200742 s at HG-U133A

10 cccaaacaattccatctcgtttcttcttggtaa

200743_s_at HG-U133A

200765_x_at HG-U133A

- 25

200770_s_at HG-U133A

gcagggatggcttcacaggctgctcaagaagccgagatcaatgccagaaaagccaaaaactctgttactagcctcctcagcattattaatgacctcttggagcagct
ggggcagctggatacagtggacctgaataagctaaacgagattgaaggcaccctaaacaaagccaaagatgaaatgaaggtcagcgatcttgataggaaagtgt
ctgacctggagaatgaagccaagaagcaggaggctgccatcatggactataaccgagatatcgaggagatcatgaaggacattcgcaatctggaggacatcagg
30 aagaccttaccatctggctgcttcaacaccccgtccattgaaaagccctagtgtctttagggctggaaggcagcaccctctgacagggggcagttgtgaggccaca
gagtgccttgacacaaagattacatttttcagacccccactcctctgctgctgtccatcactgtccttttgaaccagga

200825_s_at HG-U133A

40 200829_x_at HG-U133A

ctgaatgtgtaacaatatttaatgtatttagagttcctcatgttgcagggtttaagaaatctgacccaccaaggtcatgtgacttttctgtactgttaaacttcattgtaataaaa tgagagaaaaatttatgcctttttattcataacccagctgtggaccactgcctgaaaggtttgtacagatgccatgccacagtagatgtccac

200832_s_at HG-U133A

10

200867_at HG-U133A

15

200872_at HG-U133A

200890 s at HG-U133A

gttggtcttaccagaatcattgttgaactacctgaaacaagtctttagaatactaaatataatgctgttgtctcttcctttttgacattttttpacttttttncccccaaaactcagtta

25 atatttacccactatgattattgatgtcctgccttgaacagttttaaagaaaacaatttttggaatagctcaaattcaattgatggcacaaatcagcattttgttgttgttactgt

attacaattagtattctaaaggcagaagcagaagtagctgctttttagcaatagaattgtttcagtattttgctgctgtttaatgcgcatcttcagaaaacttcccagtggcttc

aaggaatttgggggatctctctggcaacaaattgtgaaacatgaaatttctgctgactttaatatatgaaacctaatcctaccc

200906 s at HG-U133A

35

200907_s_at HG-U133A

200917_s_at HG-U133A

ttttctccaagggcgggcttgtgctctggtgcttccagggcgttagcgactcatgcaccggacccgttaacgcgttgattcgttccgtgctgctgctgcaggaacggggaggt aacaactccttcacccatgaggcactcacactcaagtataaactggacaaccagtttgagctggtgtttgtggttgtggttttcagaagatcctgacactgacatatgtagac

aaattgatagatgacgtgcatcggctgtttcgggacaagtaccgcacagagatccaacagcaaagtgctttaagtttattaaatggcacttttgatttccaaaatgacttc ctgcggctccttcgtgaagcagaggaggagcagtaagatccgtgctcccactaccatgaagaaatttgaagattctgaaaaggccaagaaacctgtgaggtccatga ttgagacacqqqqg

5 200931_s_at HG-U133A

10 acttagaggaaataagaaaatcatgtttgctctcccggttcttccagtggtttgagacactggtttacactttatgccggatgtgcttttcccaa

200935_at HG-U133A

ggccaggccaaggacgagctgtagagaggcctgcctccagggctggactgaggcctgagcgctcctgccgcagagcttgccgcgccaaataatgtctctgtgagactcgagaactttcatttttttccaggctggttcggatttggggtggattt

15

200951_s_at HG-U133A

200952_s_at HG-U133A

200953_s_at HG-U133A

35

200967_at HG-U133A

gacttcatgatccagggcggagacttcaccaggggagatggcacaggaggaaagagcatctacggtgagcgcttccccgatgagaacttcaaactgaagcactacgggctgggtgagcatggccaaggcaaagacaccaacggctcccagttcttcatcacgacagtcaagacagcctggctagatggc

200984_s_at HG-U133A

5 ttgaactagattgcatgcttcctccttttgctcttnggaagaccagctttgcagtgacagcttgagtgggttctctgcagccctcagattatttttcctctggctccttggatgtagt cagttagcatcattagtacatctttggagggtggggcaggagtatatgagcatcctctctcacatggaacgctttcataaacttcagggatcccgtgttgccatggaggc atgccaaatgttccatatgtgggtgtcagtcagggacaacaagatccttaatgcagagctagaggacttctggcagggaagtggggaagtgttccagatagcaggg catgaaaacttagagaggtacaagtggctgaaaatcgagtttttcctctgtctttaaattttatatgggctttgttatcttccactgg

10 200985_s_at HG-U133A

15 tttaatggcataggctgacttttgcagat

200986_at HG-U133A

gacgaccagcaggatatgctctcaatcatgagaaattggaattcttcgatttttcttatgaccttaacctgtgtgggctgacagaggacccagatcttcaggtttctgcg
atgcagcaccagacagtgctggaactgacagagactggggtggaggcggctgcagcctccgccatctctgtggcccgcaccctgctggtctttgaagtgcagcagc
20 ccttcctcttcgtgctctgggaccagcagcacaagttccctgtcttcatggggcgagtatatgaccccagggcctgagacctgcaggatcaggttagggcgagcgcta
cctctccagctctagttgcagccctgctgctgctgcctggacttgcccctgccacctcctgcctcaggtgtccgctatccaccaaaagggctcctgagggtct
gggcaagggacctgcttctattagcccttctccatggccctgccatgctctccaaaccactttttgcagctttctc

200996_at HG-U133A

25 aagtgtatcaccatgcagatgtagaagagagcgaaagtgattgtgtttttetttagattgaatatttgaatcttatgtgtaacaaaaagaagtgggtttagttettettgtgcc ctgatattttgtatattaatgaattatccaagattcgatgggatttatcagtgtgtagatagctctataatgcttgaattgtacacttctaagtgtgcagtgcaagagcttgtttat atttcatactttttatactttgaggaaaaaaagtcaaagaaaaattgtatttgagggaaaaaaccatgaccaagtaaaggataaattcaaaaaatagcctcatgagact tggcatacacactcgtgggattccagttattatggagtgcttccatccctctccacccettccccccaaaaggttttctttgcaagtgcttttgga

30 200998_s_at HG-U133A

201004_at HG-U133A

35 atgtctctagt

ctgatgccatcaaagaggtcttcgacaataaattccacatcatcggcgcagtgggcatcggcattgccgtggtcatgatatttggcatgatcttcagtatgatcttgtgctg tgctatccgcaggaaccgcgagatggtctagagtcagcttacatccctgagcaggaaagtttacccatgaaga

201008_s_at HG-U133A

10

201012_at HG-U133A

15

201015_s_at HG-U133A

201029 s at HG-U133A

30 201034_at HG-U133A

35 agccaatgaacctctgtgtcctgtggaa

201061_s_at HG-U133A

tatagetetetttageteaaceactetgteeateeageeaatggatgteetteeetgtaeceaatteaagettattttagggaageettgaaactaeeatgtatetggetetag etgagttattgaggattgageeagtgeaacgttaaacteagtgeacttaeatttgatttaaatgatggttttatetgttgtgtgaagtggtteaeeettgaggaeeaggageet 40 ceatateetgaetgaaaacettttetgagaettagagtaacagtaettttggtteettgagtteteetgteteeagataeetaaatgaeettgaettttetgeettgtgaattegta gteeaateagetgaaattaaateacttgggagggaegeatagaaggagetetaggaaeaeagtgeeagtgeagaagttteteeaggtggee

201079_at HG-U133A

201105_at HG-U133A

201125_s_at HG-U133A

20 agcccacagtgcctgtacaggaaggtgcctggccatgtcacctggctgctaggccagagccatgccaggctgcgtcctccgagcttgggataaagcaaggggac cttggcgctctcagctttccctgccacatccagcttgttgtcccaatgaaatactgagatgctgggctgtctctcccttccaggaatgctgggcccccagcctggccagac aagaagactgtcaggaagggtcggagtctgtaaaaccagcatacagtttggcttttttcacattgatcatttttatatgaaataaaaagatcctgcatttatggtgtagttctg agtcctgagacttttctgcgtgatggctatgccttgcacacaggtgttggtgatggggctgttgagatgcctgttgaaggtacatcgtttgcaaatgtgagtttcctctcctgtc cgtgtttgtttagtac

25

201137_s_at HG-U133A

201152_s_at HG-U133A

40 201153_s_at HG-U133A

201162_at HG-U133A

201163_s_at HG-U133A

aggtgaaggtgccgagctataaacctccagaatattattagtctgcatggttaaaagtagtcatggataactacattacctgttcttgcctaataagtttcttttaatccaatccactaacactttagttatattcactggttttacacagagaaatacaaaataaagatcacacatcaagactatctacaa

10

201164_s_at HG-U133A

cagtatgccaactacgtggtccagaagatgattgacgtggcggagccaggccagcggaagatcgtcatgcataagatccggccccacatcgcaactcttcgtaagt acacctatggcaagcacatctggccaagctggagaagtactacatgaagaacggtgttgacttagggcccatctgtggcccccctaatggtatcatctgaggcagtg tcacccgctgttccctcattcccgctgacctcactggccactggcaaatccaaccagcaaccagaaatgttctagtgtagagtctgagacgggcaagtggttgctcca

15 ggattactccctcctccaaaaaaggaatcaaatccacgagtggaaaagcctttgtaaatttaatttattacacataacatgtactatttttttaattgactaattgccctgct gtttactggtgtataggatacttgtacataggtaaccaatgtacatgggaggccacatatttgttcactg

201189_s_at HG-U133A

25 201200_at HG-U133A

201247_at HG-U133A

201263_at HG-U133A

40 gatctggatccaggctgtacattgaataaaaagattcgaaatgcacagttagcacagtataacttcattttagttgttggtgaaaaagagaaaatcactggcactgttaat atccgcacaagagacaataaggtccacggggaacgcactatttctgaaactatcgagcggctacagcagctcaaagagttccgcagcaacaaggcagaagaa gaattttaatgaaaaaattacccagattggctccatggaaaaggaggaacagcgtttccgtaaaattgactttgtactcgaaaacgtcaatttatattgaacttggagga ggagtttggcaaagtctgaaataggtcaacctgcaggcgtaactattt

201278 at HG-U133A

201281_at HG-U133A

201324_at HG-U133A

15 caccaaattacctaggctgaggttagaggattggccagcaaaaactgtgggaagatgaactttgtcattatgatttcattatcacatgattatagaaggctgtcttagtg caaaaaacatacttacatttcagacatatccaaagggaatactcacattttgttaagaagttgaactatgactggagtaaaccatgtattcccttatcttttactttttttctgtg acatttatgtctcatgtaatttgcattactctggtggattgttctagtactgtattgggcttcttcgttaat

201334_s_at HG-U133A

25

201338 x at HG-U133A

201352_at HG-U133A

201358 s at HG-U133A

40 gtttgtcttttgtcttaacagttctgaatgctgtcctcaaagtatataatgtttcatgtaccaagacccttttcacagtacaataaaca

201359_at HG-U133A

aaatgactacttacagcacatattaaagtcaaccaatatgaaatgcctgactccagaaaaggccctttctggttactgtggctttatggcagccaacctttatgctcgttccatatttggtgaagatgcacttgcaaatgtcagcattgagaagccaattcaccagggaccagatgctgctgttaccggccatataagaattcgtgcaaagagccaggg

aatggccttaagtcttggagataaaatcaacttgtcacagaagaaaactagtatataaaaataaacaaaaagtccttgaagctttacagttaatttaggtatgggcttac
tggactccaacatcttttgtactctttcatgcttatatagaatctgagttcatgctgaatacttttcagccaataattat

201360_at HG-U133A

10

201362_at HG-U133A

201377 at HG-U133A

201396_s_at HG-U133A

30 201416 at HG-U133A

35 cacagtcttttttgcattgtaggagagggactaagtgctagagactatgtcgctttcctgagctaccgagagcgctcgtgaactggaatcaact

201417_at HG-U133A

201433_s_at HG-U133A

201437_s_at HG-U133A

20

201462_at HG-U133A

201463 s at HG-U133A

201482_at HG-U133A

40

201485_s_at HG-U133A

gaatttettggtgattacaggtgggatecaactgcaaatgaagatecagaatggatacttgttgagaaagacagattegtgaatgattatgacaaagataacgatggc aggettgatececaagagetgttacettgggtagtacetaataateagggeattgcacaagaggaggeaetteatetaattgatgaaatggatttgaatggtgacaaaa agetetetgaagaagagattetggaaaaeeeggaettgttteteaeeagtgaageeaeagattatggeagaeageteeatgatgaetatttetateatgatgagetttaat

ctccgagcctgtctcagtagagtactggctccttttataatttgttaccagctttacttttgtgataaaatattgatgttgtattttacactcttaagtcttaaccacagtcagaatta tct

201486_at HG-U133A

5 gatatttttccaaacgtattgagcaacaaaatattaatattgtgccatatgacaacaaagtctttcctaaatactccatctgtttagtactgtattgtggaatatttgagttctattt ccagacttgaaaacatggaggattttagagtgcctgaacaatattatttaagtagtatgtgaccgagctataaattttttgtttctaagtagatttaatttgggaactga caggacaatgtttttaggtttagacattttgtttaaaaaacctttaaagaaacctttagaaggacttagacctcacatattaatgttgagaagttctgcttaattttaaatgtttgagaagttctgcttaattttaaatgttataaggggttttattgtatgaaatagaactttatatttttgcatatgtatagaggataattatatttaatgtataactatagcattatggtgagtggaatttgacattgtccaaaccttttttcatt

10

201496_x_at HG-U133A

201497_x_at HG-U133A

25

201506_at HG-U133A

201530_x_at HG-U133A

40 201537_s_at HG-U133A

aaatggatcctttattggtggtagagcaaaaaaacccaaacacgataaacctttcaaaagactttctaaggatgatattggaatgcaccagccctcacatgtgtatgcacatt

201540_at HG-U133A

10 201548_s_at HG-U133A

201564_s_at HG-U133A

201585_s_at HG-U133A

201592_at HG-U133A

201595_s_at HG-U133A

35

201602_s_at HG-U133A

15 201640_x_at HG-U133A

201644_at HG-U133A

ctggcccagctctttatctgggtcctgcgggagtacaatgaagtggagcccatcatcctctccgtgggcgaggaagatgaggtctccatcaaggaggccagccgagg cggtggtggaggccatggacttccatggggaagtcacctttgatacaaccaagtcggatgggcagtttaagaagacagccagtaacagcaagctgaggacctacc 25 tgcccgacttccggttcacacccttcaagcaggcggtgaaggagacctgtgcttggttcactgacaactacgagcaggcccggaagtgaagctggaagaccaggat caggtgccagcgggaccatcggctggcagag

201652_at HG-U133A

35

201753_s_at HG-U133A

40

201761_at HG-U133A

201810_s_at HG-U133A

5 agtaagagccaaagcagcacctcccctgagggccaggccttggagaaccggatgaagcagctctccctacagtgctcaaagggaagaagagatggaattattgctga cataaaaatggtgcagattggctgattcatcctgggccctggccgatgtgcatatcaacatttatacatggaactggagaacattgtgccaataatcatttaatatatgcc naaatcttacacgtctactctaaactgctctaatgaagtttcagtgaccttgagggctaaagattgttcttctgggtaagagctcttgggctggtttttcagagcagagttcttg ttgtgggtagactgtgactaggttcacagcctttgtggaacattccgtataacggcattgtggaagcaataactagttcctatgaaagaaccagagctgggaagatggc tgggaagccaggccaaagtgggggaacagcttgcttcttttctcttctaccctcagtttgtaggaaaatggagatgtcctctccactttatcc

10

201811_x_at HG-U133A

201812 s at HG-U133A

ccgtcgccatggtgaagctgagcaaagaggccaagcaggagctacagcagctcttcaaggggagccagtttgccattcgctggggctttatccctcttgtgatttacct
20 gggatttaagaggggtgcagatcccggaatgcctgaaccaactgttttgagcctactttggggataaaggattatttggtcttctggatttggaggcaatcagcggacag
catggaagatgtgtgctctggctcggataagagatgggacatcattcagtcactagttggatggcacaaggctcttcacagacgcactctgt

201813_s_at HG-U133A

ccccaaggccagactgaggctcatecagtggagaaccttettaaaccactgcttectteceggcatgcatttggcattggtccagecctttgaaacccettagagagaa

25 gcatatatggccacaaagcacagaggcttaggtttgccacatgcagacagggctttctgggccettacctaatccccacccgactcttgctctgagttagagttaggtta
cgtacccagtatcacactcacagttagaaaagaccgaatcacaatttagaatcacttttcctctgtccccttctccccagctaagaatgtgtggcacctccatcagttata
cttagaaggagcagaaatagttattttcgtatcttctatccctcaaagcatcagacatgggaaaattggtttataccaagaaagcttcctctgtggaaatctgtctcagcct
actttattcctgcattg

30 201825 s at HG-U133A

aggeaactteteataaaatteeeatggttetteteetttggetattttteaaaacaaggeeeaacaaaaacagattgatgetgeeteatteaegetgacattetttggtea aggatacageeaaggeactggtacagataagaacaaaccaaatateaaaatttgtacteaggtgaaaggaccagaggetggetatgtggetaeceecatagetat ggtteaggeageeatgactettetaagtgatgetteteatetgeetaaggegggggggtetteacacetggageagettttteeaaaacaaagttgattgacagaetea acaaacaeggtattgagtttagtgttattageagetetgaagtetaaacaetggaagaattaactgaagteataaegtgegtgaattaacagettetetatttgatatttgaa

35 attettetgtaageetgtetga

201828_x_at HG-U133A

201830_s_at HG-U133A

201851_at HG-U133A

cagetgggatetgeetgaggacagagaacatggteteetgeagggeetgeeteecaageeeegeeeteagaaageeaagtacetttteagettttaactgeeeeea

15 teecaaeeeagggaggeetgtgteaetetggeacaagetgeeaeeaeeageeaeeeaeeeeageacaeeeageacaeeteaaegggaceaeageegegetgeeg

agggeeaageacaaaggtteeagtgagegeatgteeeageeetggtggeeaggeteeeettgetgageegetgeeaetteaeeetgtgggaagtggeeeageeat

eteetetagaeeaaggeaggeageeeegaeatetgetteetetategeeeaatgeaaaategatgaaatggggagttetetgggeeaggeeaeatteaeatteeeete

cetetgtggteeagtgaageteeggaeeeeaggetetgetetgeeetgeeetgeaeeeeeeetegteagaagtaeatgaggggegeagaatgageaeaeagetttgg

geaeggteeagggeaaaetgaaat

20

201853_s_at HG-U133A

gcttggtctgtttgactttacgcccatctcaggacacttccgtagactgtttaggttccctgtcaaatatcagttacccactcggtcccagttttgttgccccagaaagggat
gttattatccttgggggctcccagggcaagggttaaggcctgaatcatgagcctgctggaagcccagcccctactgctgtgaaccctggggcctgactgctcagaactt
gctgctgtcttgttgcggatggatggatggatggatgggtggatggccgtggatggccgtggatggcgaggccttgcatacccaaaccaggtgggagggttttg

25 ttgagcatgacacctgcagcaggaatatatgtgtgcctatttgtgtggacaaaaatatttacacttagggtttggagcattcaagaggaaatgtcacagaagcagctaa
accaaggactgagcaccctctggattctgaatctcaagatgggggagggctgtgcttgaaggccctgctgagtcatctgttagggccttggttc

201858_s_at HG-U133A

cctggttctggaatcctcagttcaaggttatcctacgcagagagccaggtaccaatgggtgcgctgcaatccagacagtaattctgcaaactgccttgaagaaaaagg

30 accaatgttcgaactacttccaggtgaatccaacaagatccccgtctgaggactgacctttttccaaagacgagaatccaggacttgaatcgtatcttcccactttctga

ggactactctggatcaggcttcggctccggctccggatcaggatcgggagtggcttcctaacggaaatggaacaggattaccaactagtagacgaaagtg

atgctttccatgacaaccttaggtctcttgacaggaatctgccctcagac

201874_at HG-U133A

40

201889_at HG-U133A

ctgaatgtaattaattcatgaataaatgcaccttatatgtttaaacaatctttgtatacttttgggatttttggtgcttatatgctaaatcacattcagcatgtgtattttgacatttaaatacttccctcaattctgtaaatt

201922_at HG-U133A

10

201923_at HG-U133A

gtgtccaactgaaattatcgcttttggcgacagacttgaagaattcagatctataaatactgaagtggtagcatgctctgttgattcacagtttacccatttggcctggattaa tacccctcgaagacaaggaggacttgggccaataaggattccacttctttcagatttgacccatcagatctcaaaggactatggtgtatacctagaggactcaggcca cactcttagaggtctcttcattattgatgacaaaggaatcctaagacaaattactctgaatgatcttcctgtgggtagatcagtggatgagacactacgtttggttcaagcat

201962_s_at HG-U133A

taagtacaggctgtgccgtgtctcacccacaccccctggggacttcagttccatttcaggttacctggggtataccttgatccctagagtgactggcagagtaagaga aggggagagataataggtgtgattattttaatatgaaggtggnagtgtggttggagatagaaaggctcctccccaccatgtaatggcttcctctcagaattttattccagg 20 ctagcttgctgcaggtctgggtagttggatcatggctccactgggattggggtggaaagcttgaggggagtagggttccagctctgggacattgtgctcaggaatttgaa aacgctgctatacttacttctggttactacatttcttccactccctttcccctacctgccttaaccaaggctcatactgtcctgtc

201968_s_at HG-U133A

30 201974_s_at HG-U133A

tttatagattacactggccaccagctccgtgacccaggctggaatgcaatggctcactgcagcctcaacctcctgagctcaagcaatcctcccacctcagcctccaa gaagctagaaccacatgtacacaccaccacggtcggctgatgtttaattttgcagagatgggggggtctcactatgttgcccaggctggtctcgaactcccgtaatcc agccatgtaggaaacctgagatgcagtgggccaaggggtatgttaaaacactgtgacgagttcagtgctaagaactgtaatgctcaggaaatcttacagcacgtgcc atcctaagcctgtgtgtgtgtctcctgtgtctctctactttttcttcttgctggtgatggtcttgctggatggggacacggtcacatcctccttgggagggtccagtatgaggtg

35 agaggatgacacgtctgccggctcctttagcactgtgatgtccacctcataagtcatgtctcttgggcctc

201985_at HG-U133A

ctctgctgaagcagttccattcccggtacaccgagcagttcctggcgctgattggccagtttatctgctccacggtggagcagtgtacaagccagaagatacctgaaat tcctgcagatgttgtgggtgcccttctgttcctggaggattatgttcggtacacaaagctacccaggagggttgctgaagcacatgtgcctaatttcatttttgatgagttcag aacagtgctgtaactgttttcctacttcttcaatggaaggattgtccttagatcttcccaccatcacaaatgaatttgaagatgaaaagaaactcagttgctcatacaaactg cattttttctgtctattatgggaaacatcagacgttctgagtaagatatatctcatggcattagttaatataactgatattgttaaatcatggtattacatgcaattttatacagat aaaagcagaacacatttttgtactgcctctcttaaatgctgaat

201998_at HG-U133A

202016_at HG-U133A

20 202018_s_at HG-U133A

202028_s_at HG-U133A

 $ccttcactgccaaaccgggggcagggactgcttcagtttctctgccttcttttgtcagtgatgaccagggtgtaaaggtatctgctgcatcgaactttaaacttcacgttg\\ tccttatttttcttgatcttgacagattttggcatcctttcgtcgggnctgtgagcaggaagtccttgatttcctcaattttccga$

30

202052_s_at HG-U133A

202074_s_at HG-U133A

202080_s_at HG-U133A

202085 at HG-U133A

gcagaacactgcagtcagatcctgttacttgcttcagtggaccgaaatctgtattctgtttgcgtacttgtaatatgtatattaagaagcaataactatttttctcattaatagc

10 tgccttcaaggactgtttcagtgtgagtcagaatgtgaaaaaggaataaaaaatactgttgggctcaaactaaattcaaagaagtactttattgcaactcttttaagtgcct

tggatgagaagtgtcttaaattttcttcctttgaagctttaggcagagccataatggactaaaacattttgactaagttttataccagcttaatagctgtagttttccctgcact

gtgtcatcttttcaaggcatttgtctttgtaatattttccataaatttggactgtctatatcataactatacttgatagtttggctataagtgctcaatagcttgaagcccaagaagt

tggtatcgaaatttgttgtttgttttaaacccaagtgctgcacaaa

15 202095_s_at HG-U133A ·

20 gtctggcgtaagatgatggatttgattcgccctcctcctgtcatagagctgcagggtggattgttacagcttcgctggaaacctctggaggtcatctcggc

202101_s_at HG-U133A

202113_s_at HG-U133A

202123_s_at HG-U133A

35

5 202148_s at HG-U133A

10 gaggccctgcctgtgtgggagggtggttactgtgggtggaatagtggaggccttcaactgattagacaaggcccgcc

202150 s_at HG-U133A

gacatctcgaagtggaagccctctcagagcctacccacacaaacagtggcgtgagtgctcaggatcggcagttgctgtgctctactatgaccaatgtgagacccat ttcatttcccttctcaacgccattgacgcactcttcagttgtgtcagctcagccccagcccccgcgaatcttcgtggcacacaggcaagtttgtcatcctcagtgcacacaaac

15 tggtgttcattggagacacgctgacacggcaggtgactgcccaggacattcgcaacaaagtcatgaactccagcaaccaagctctgcgagcagctcaagactatagt catggcaaccaagatggccgcctccattaccccagcaccacggccctgcaggaaatggtgcaccaagtgacagacctttctagaaatgcccagctgttcaagcg ctctttgctg

202156_s_at HG-U133A

25

202206_at HG-U133A

ttgcagaagctgtcacttaccctgaaacacagtatcaaaagggaaacttaaaacatactgtttgatttttttatttcctcttacaatccatgttttcaggtagaattatgacttcccccattgttacacattctttacaaaggaggcctgtagaaattggacacgatcatgcttgagcatgtgagttagtcaaattatgagtccctgcctattgtccattacacacccgaatgttaatttaagaaccagaggcagaagttctggcttcctgcttgaaacccaattcttatatgaaatttttaaaagcagaaacctagcagcccatctgctttttctctttt

30 gtcggtgtatttggtacccctccaatgctggtctttttgtagaaactcagtagagaaagtctagctaagcagtgttgaaaagcctgcaagatttcagtttacatatcgacagcatttcaatgtggtctggtcccatcatctg

202249_s_at HG-U133A

202254 at HG-U133A

202262_x_at HG-U133A

202265_at HG-U133A

15 202283_at HG-U133A

20 cttcattggcaagattctggaccccaggggcccctaatatcccagtttaatattccaataccctagaagaaaacccgagggacagcagattccacag

202288_at HG-U133A

taggatectagcctg taaagacacagaagatgctgacctcacccctgccacctatcccaagacctcactggtctgtggacagcagcagaaatgtttgcaagataggccaaaaagttcaattcaaagacctgaccgttagtaggagggtttattcagacccagtgatgtgcgattcacacgttcaattcaaagacctgaccgttagtaggagggtttattcagatcgctggcagc

25 ctcggctgagcagatgcacagaggggatcactgtgcagtgggaccaccctcactggccttctgcagcagggttctgggatgtttcagtggtcaaaatactctgtttaga gcaagggctcagaaaacagaaatactgtcatggaggtgctgaacacagggaaggtctggtacatattgggaattatgagcagaacaaatactcaactaaatgcac aaagtataaagtgtagccatgtctagacaccatgt

202328_s_at HG-U133A

35

202332_at HG-U133A

40 ggcaagaggtctcccggatcccagcctcacagacaagtgtgccatttgaccatctcgggaagtga

202340_x_at HG-U133A

5 202370_s_at HG-U133A

10 cagattgcttttgccaccattggccatactgtgtgtt

202371_at HG-U133A

202377_at HG-U133A

tataggagccatgtaagcacgcagtngggtgaactgcttaatttcactacatgttgatgtacttgtcttccgtcntgtaggtcttttctatataactttatgccacccttaaatga

20 atcattgggtatacctgtcatgttggatcctgtaatcacagttttccctgctcacctttttgtctaagatctattgagaaagggaaatatgggaaggagaaccatttgatcag

aatacaaccaatagtctttaagcattgttaaagtatgaaactgaaatacattcaaaacacttaatccttgaggcttgtgatctgagtaattagcaggtatgatgctgggact

ggaaaatagaaagtaataactaaagggttaatgtgcaacgttattttttggccttgttcatgattttatgttttcagtgtcctgtg

202382_s_at HG-U133A -

25 aggtccactggggcaacagacactgccacaatttcagtgttgtgttcagccaaggggacggtctggacaggcagcttaagtgtgagtttagtcacaactcctgagtgt cccgctctcctgcttacctaggaggtgagtgccaggaaaatacaccaaatgcttctagtattgtttccccacttaaaatagtcctgcttaaattcacatggtgtggtctgatg ttctgagagcatcaggaaatacaacccttttgcccatttacccttctccccggatcccaaggtggtctgttgctctggcttcctttcattgtcttaggccttcatggagtggatg ctgctcctctctggctgttttttgtgcctgttttgaagctactgctgccccatttctgggaaagacctttgagagcctaggcccaaggcctaagggctatgtttggtacca

30 202391_at HG-U133A

35

202406_s_at HG-U133A

40 tagacateggaaaatgaaaatatttatttaaaaaattgaaatgtttggaacctttagcacagatttgctttggtgaaggacacgtgtcttctagttctgc

202413_s_at HG-U133A

5 202421_at HG-U133A

10

202441_at HG-U133A

catgacagtttgttggttgtgccaaacactttatttgggaaaggaaagcccagatttgaatgggtctttcccttgggccttatcctatagaggcatttgtaatatggagaaa ataatttttcatttttgctcatttaattctataaattctctttataaatgaattttgigttctttagttctccttaaaagaacttttgaattataaaataaaatctttacctgtcgaattgtt gctgcagatgattgttgtgggaaaatctggatcattgacctctgtgctttcattcctagagatgttttatagttacatgagcaaaagctgttgccccaaagtgatggccctgga ggcggggtgaggaacagggaaatgccgctgtgaagtcttaaagcacttctgcttaaactccnatgtgtgaggagtgtgcctccctgtgccctctcagctctgaggctg gccgtctttcggggtgttccttttgggcaaatatacactgtaatcttgagtctaaatttatatgttgaaatgctacctttttta

202443_x_at HG-U133A

25 202477_s_at HG-U133A

202479_s_at HG-U133A

40 202481 at HG-U133A

ccatggacaatgcatgccctcgttatcttgaaaagcatacttccacaggctgcactcgaggagatccacaaattctcaggaacctacacctgcatgaacactttcaaa gggcggacatagagacaggatgaagacatgcttgaggagccacggagtttgggggccacagcacctgggcacacacccgagcacctgtccattggcatgcttct gctgggtgagcaggacagctcctgtccccagcgaagaatccggctgcccctgggccagtcccaggacctttgcacaggactgatgggtgtaactgacccccacag

ggaggcaggaaaacagccagaagccaccttgacacttttgaacatttccagttctgtagagtttattgtcaattgcttctcaagtctaaccagcctcagcagtgtgcatag accatttcca

202503_s_at HG-U133A

10

202519_at HG-U133A

15 gctggccacctccagtgggtgctgaccacaggatgggctttgtttacactcattttcaccctgattcttgcccccactttcataaaaga

202524_s_at HG-U133A

ggtccgttggcatcaacacggggaccctctgcttcaccaaagcccgagccctcagcccctggggagaacaaatgctgagctttgatacctggggtcgtcgagagg ctgcgggctggcggcagtcccaggggagagacaccacagaaggagacccagacatcccgaggaagttcccagcagagcaaactgctttccagcctgaagcct 20 gcttaaactgtgtgatgtgcaataactgagcttagagttaggaattgtgttcaagtgcttggatttccgtctgtagatttaactgctgaaattgtatctctcagtaattttagatgt cttttaaaaaaattgaaaaacaaagtgttagactgtgtgcgttgtgcgttgatgggcactcaagagtcccgtgagtcatccagccctgcctttcccctgcgccccatcctct cacgtcccgccctgcctccacttggggaccctgcctcgtgtcgtctttatctgcctattactcagcctaaggaaacaagtacactccacacatgcataaagg

202530 at HG-U133A

25 aagtcacttccagtgttggctgtgtgacagaatcttgtatttgggccaaggtgtttccatttctcaatcagtgcagtgatacatgtactccagagggacagggtggacccc ctgagtcaactggagcaagaaggaaggcagactgatggcgattccctctcacccgggactctccccctttcaaggaaagtgaacctttaaagtaaaggcctca tctcctttattgcagttcaaatcctcaccatccacagcaagatgaattttatcagccatgtttggttgtaaatgctcgtgtgatttcctacagaaatactgctctgaatattttgta ataaaggtctttgcacatgtgaccacatacgtgttaggaaggctgcatgctctggaagcctggactctaagctggagctcttggaagagctcttcggtttctgagcataatg ctcccatctcctgatttctctgaacaga

30

202535 at HG-U133A

202545_at HG-U133A

ategecetgagatectacagggeetgaagtacacattetetgtggactggtggtettteggggteettetgtacgagatgeteattggeeagteeeetteeatggtgatg
40 atgaggatgaactettegagteeateegtgtggacaegeeacattateeeegetggateaceaaggagteeaaggacateetggagaagetetttgaaagggaace
aaceaagaggetgggaatgacgggaaacateaaaateeaceeettetteaagaceataaaetggactetgetggaaaageggaggttggageeaceetteagge
ccaaagtgaagteaceeagagactacagtaactttgaceaggagtteetgaaegagaggegegeeeteeteetacagegacaagaaceteategaceatggace
agtetgeattegetgget

202551_s_at HG-U133A

202552_s_at HG-U133A

202572_s_at HG-U133A

20 202580_x_at HG-U133A

25 gccccagctgaccgcatgggtgtgagcc

202589_at HG-U133A

202600_s_at HG-U133A

40

202606_s_at HG-U133A

aatcagittattgggitctagggctgtagaacacatagatactagattittaattigitcatggttattctacatttctagaaagttcttatcagcaagatggtcccataaggaaa tttctigtggtttgtccagatttgttaaaatgtgaacgttttctaactgcctcgtagggtagaaaccaatatttttcaggatgctgtatttcactcctgtaaggactitttctttattgtc

202619 s at HG-U133A

10

202625_at HG-U133A

taagagtccagctttttcatttccacaatttcctatatccagatttgttttgacaatgtagtttggaagaactaagattctaatctctgaagaaccttatagggccttctaaaaca taagagtttcctttgttgcttcaaatatttgaacattatgttaaagatcaagtattaattttagttgtactctagaaagctaaagtgccacattcggggctatttttatgattcagca atcttttctaaattgtgtagcatgtgtatgagactatttatacccaaggatatgaaggaacataagtgactacaaggctctaataagccacggtggcaggaggttcaagc

15 ggttctgttcactaaatttttctcctgtaagctttgaatggaaacttctgtatcacatgatgtgtttcacttatgctgttgtg

202626_s_at HG-U133A

gacccgtccatttggcaggggtggctgcctcatttagagaggaaaagtaaccatcactggttgcacttatgatttcatgtgcggggatcatctgccgtgcctggatcctga aatagaggctaaattactcaggaagaacaccctctaaatgggaaagtattctgtactcttagatggattctccactcagttgcaacttggacttgtcctcagcagctggta 20 atcttgctctgcttgacaacatctgagtgcagccgtttgagaagaaaacatctattctctccaaaaatgcacccaactagctctatgtttacaaatggacataggactcaa agtttcagagaccattgcaatgaatccccaat

202655_at HG-U133A

30 202705 at HG-U133A

gccactacacttcttaaggcgagcatcaaaagccggggaggttgatgttgaacagcacactttagccaagtatttgatggagctgactctcatcgactatgatatggtg cattatcatccttctaaggtagcagcagctgcttcctgcttgtctcagaaggttctaggacaaggaaaatggaacttaaagcagcagtattacacaggatacacagag aatgaagtattggaagtcatgcagcaacatggccaagaatgtggtgaaagtaaatgaaaacttaactaaattcatcgccatcaagaataagtatgcaagcagcagcacttcctgaagatcagcatgatccctcagctgaactcaaaagaccgtcaaagaacttgcctccccactgataggaaggtcctaggctgccgtgggccctggggatgtgtgct

35 tcattgtgccctttttcttattggtttagaactcttgattttgtacatagtcctctggtctatctcatgaaac

202709 at HG-U133A

tctggctggggtccgtgaagcccaggccaggcaaatcttgcctgtgctgggcatacaaccctctgctttcacatctctgagctatatcctcattagtgaaggtggct
tttgctttatagtttggctggggagcacttaattcttcccatttcaaaaggtaatgttgcctggggcttaacccacctgccctttgggcaaaggttgggacaaagccatctggg
40 cagtcaggggcaaggactgttggaaggaggttagcccaagtataggctctgcccagatgccatcacatccctgatactgtgtatgctttgaagcaccttccctgagaa
gggaagaggggatctttggactacgttcttggctccagacctggaatccacaaaagccaaaccagctcatttcaacaaaggagctccgatgtgagggcaaggct
gcccctgcccagggctcttcagaaagcatctgcatgtgaacaccatcatgcctttata

atccccaactgtgacaagcatggcctgtacaacctcaaacagtgcaagatgtctctgaacgggcagcgtggggagtgctggtgtgtaaccccaacaccgggaag ctgatccagggagcccccaccatccgggggggaccccgagtgtcatctcttctacaatgagcagcaggagggcttgcgggggtgcacacccagcggatgcagtagac cgcagccagccggtgcctggcgccctgccccccgcccctctccaaacaccggcagaaaaccggagagtgcttgggtggtg

5 202723_s_at HG-U133A

202729_s_at HG-U133A

202746_at HG-U133A

25

202747_s_at HG-U133A

202761_s_at HG-U133A

40 202819_s_at HG-U133A

tgggaagcagccatgcttccgccagtagcatcagctttaaccccagcctgaggagccggcctatgatggcccaagcaccagcagtgcccacttggcaccagtggt cagcagcactgtttcctatgatcctaggaaacccactgtgaagaaaattgccccaatgatggccaagacaattaaagctttcaagaacagattctcccgacgataaactgaggacttgccttggaaatggaatctggggaggcaggaagacagtgggggttggggaatggaattctacaggagactggatcttgctttgtggatcctt

202822_at HG-U133A

10 202823_at HG-U133A

aatacctgtagttcagttagtaactttttcatatatagcatgttgcctgtatgcagttgaactatataaagttcattgcaaagcagattatcttgtttttttgcatagcaatcaaagt tgaaatttgtttgctacatcaacaaattaaggacattttcacaaactgagaaataaacaaatatgccaattnnnannnnnnnttgccttatcctttgaatgtgacttaaaat cagcaatgatgatatagtaaatactgaaatttaggtgtaaatcaatacgttctacagggaaataatgaggctaagtanttttatgtttttagtggtttttagaaacctaatctt atagccgccattagcattactagagttatgcaataattgcattataaacatgtttataacttagccaaaacattgattttataactctccaagtatgagttgaaattcttatg

15 tcttttgataaactgcagtattcttt

202853_s_at HG-U133A

202862 at HG-U133A

30 202863 at HG-U133A

35

202880_s_at HG-U133A

5

202926_at HG-U133A

gtcgctctttgtataacaccaagcagatgctgcctgcagagggtgtgaaggagctgtgtctgctgctgcttaaccagtccctcctgcttccatctctgaaacttctcctcga
gagccgagatgagcatctgcacgagatggcactggagcaaatcacggcagtcactacggtgaatgattccaattgtgaccaagaacttctttccctggatgc
caagctgctggtgaagtgtgtctccactcccttctatccacgtattgttgaccacctcttggctagcctccagcaagggcgctgggatgcagaggagctgggcagaccac
ctgcgggaggccggccatgaagccgaagccgggtctctccttctggccgtgagggggactcaccagggcttcagaaccttcagtacagccctccgcgagcacaag
cactgggtgttgaagccacctgtggccctgctccttagcagaaaaagcatctggagttgaatgctgttcccagaagcaacatgtgtatctgccgattgttctccatggttc

202944_at HG-U133A

caacaa

20 202945_at HG-U133A

25 tggccaggccttggtcttgccatgtgctgggtggtaga

. 202956_at HG-U133A

ggtaggtggtgattttgaggctgtaacatgcccagaagctgttgtggccgacacttcaacaatagggaaaaaaaggtagaaaatatccctactgacagtaactacct gtcacatatttctcttaggacttttaaagatgagccattaaaatagaatgatcctttatggaccaaaacttgaatcactgcaaaatgaatccagattgctgtcattttcttttcttt 30 tgggtggtgggggcttgatgtagattttactctatgtacagaatttaacgttgaatatataaaataacaaatctggcatggtttgcggaggttagatttactggaaatgtattca tactgtgaattgtgctctgatggttaaaagacaagattgcaagcattccgtattaacagtggatgtagaaaattttttcagatggacaaaatgtatatggtacagatgtaa agttttctatgtaaaaaattctgtacaactttctgtacaatattgattccaatctggcatattcta

202973_x_at HG-U133A

35 tagcagctctcttctgtcagctgaatgttaaggatggggaaaaagaatgcctttaagtttgctcttaatcgtatggaagcttgagctatgttggaagtgccctggttaatccatacacaaagacggtacataatcctacaggtttaaatgtacataaaaatatagtttggaattctttgctctactgtttacattgcagattgctataatttcaaggagtgagat tataaataaaatgatgcactttaggatgtttcctatttttgaaatclgaacatgaatcattcacatgaccaaaaattgtttttttaaaaatacatgtctagtctgtcctttaatag ctctctttaaataagctatgatattaatcagatcattaccagttagcttttaaagcacatttgtttaaagcacatttgtttaggaaaatacgctacagaatttttttaagctacaaat aaatgagatgctactaattgttttggaatctgtttttggaaacattgtttttggaatctgttgttccaaaggtaaattaactaaagattattcaggaatccccatttgaatttgta

40

203005_at HG-U133A

203007_x_at HG-U133A

10

203020_at HG-U133A

203021 at HG-U133A

25

203026_at HG-U133A

203037_s_at HG-U133A

40 203041_s_at HG-U133A

agtattctacagctcaagactgcagtgcagatgacgacaacttccttgtgcccatagcggtgggagctgccttggcaggagtacttattctagtgttgctggcttattttatt ggtctcaagcaccatcatgct

5

203057_s_at HG-U133A

203074_at HG-U133A

20 203092_at HG-U133A

ggcaactccagacctctgggaacaagactgcgggctctgccccagctctgccaggacggctgcaagaccagctggcccgggaaggggacaacgggctgttgcg ggtgcgcggcagctggagacactcccccgcagggccaacccctgccctgttgctctgccctgcaggggtcccgggggaccggggacatggtcacctggggtgcacacaggtcac acagtgccaagaggccccagggcccagggactccccccacagcagggtgggacccgggacccgggctcagtggcccgctagccacgtcagccacgtcacctt taggtccattttttaattttaacagtgctcttccatcttgtgcataagcctgagatttggaaagaataaaacaccgaattgcagaaga

25

203104_at HG-U133A

203110_at HG-U133A

40 203133 at HG-U133A

203177_x_at HG-U133A

203188_at HG-U133A

20 203217_s_at HG-U133A

203233_at HG-U133A

203241_at HG-U133A

203288_at HG-U133A

40

gttagctgtcacggtgtgcacactaatctctgttaaagttgtctatggctgttctacttgtaagatagttttctatttccttcagtaatgtgtccacagtaccctgtatttcgagttccattatactgaagtactcatgttttaatagtgcctctccaaaaggcctcaccttggacagaggtcaatccttgatgctccagcacaggtgacgtcactaattgtcactttccagt ttgtttttctattaaggaagacattttctaattgcatctccatgggctgtgaagactgtgtgaagccgtttgtgtggtctccatgtaggtgctgtgttcccggcaccgccttgctct

203345 s at HG-U133A

10 203355_s_at HG-U133A

15 gcaaaaatgactttcaactaaccttgtgaatcttttgcagtgtactgtgtgcaataccaagggcatagctccctgtaa

203367_at HG-U133A

203370_s_at HG-U133A

30 203372 s at HG-U133A

gagatagetegeatteagaetaeetaetaaeaatatetgttaaaaeateagetggaeeaaetaatettegaategaataeeaagaeggaaaatteagattggaetetat catatgtgteaaateeaagettaaaeaatttgaeagtgtggtteatetgategaetaetatgtteagatgtgeaaggataageggaeaggteeagaageeeeeggaa eggeaetgtteaeetttatetgaeeaaaeegetetaeaegteageaeeatetetgeageatetetgtaggeteaeeattaaeaaatgtaeeggtgeeatetg

35 203373_at HG-U133A

203380_x_at HG-U133A

5 203385 at HG-U133A

203386_at HG-U133A

203387_s_at HG-U133A

gctttaataatcttccccttttatgtgaaaagttttgagaactgtgaaatgtttaggaacaaactgttgaaatccattggaagggaaaaagaagtggtaccagtgttac
20 cagctcaactaaaacctgcaattctgcatttcactctctcactcctcagcctacaaatagctcattagatgacattcacgcatgctgggtataggcaaggaaagtaatttt
caaagtacatttgcagttctctttttcagagatgattctatgatagtgcctctgaaagttgatgcagcatttttgcctttccaaaaagtatttatcctcactgcttttttgcagtacttg
tattttcacagatggattatctggggtaattttcttcaaagggagtttgttatacacagtgaaaatgtattatagagtagaatagtaaagctctaggggtttcagaaagctttg
atgaacagatgacaaacatctgaaaccccctccgcactgttacccagtgtgtatataatgacttgttatagctcagtgtgcccttgaatccatacagtttct

25 203394_s_at HG-U133A

203535_at HG-U133A

30 gcaaaatgtcgcagctggaacgcaacatagagaccatcatcaacaccttccaccaatactctgtgaagctggggcacccagacacctgaaccagggggaattc
aaagagctggtgcgaaaagatctgcaaaattttctcaagaaggagaataagaatgaaaaggtcatagaacacatcatggaggacctggaccacaaatgcagaca
agcagctgagcttcgaggagttcatcatgctgatggcgaggctaacctgggcctcccacgagaagatgcacgagggtgacgagggccacggccacaccacataag
ccaggcctcggggagggcaccccctaagaccacagtggccaagatcacagtggccacggccatggccacagtcatggtggccacggccacaggccac

35

203544_s_at HG-U133A

203593_at HG-U133A

gattcctttattctagcaattactttctgttggtatgggaaatgttattaatttctattactaaagttcatatcacaaaatgatatttaataataaccttggggtaaatcatgaattttt
ttttctacgtgtgagtataaaagacaaaagttgaacagcatggaatcttcattgccaaattattagtgaatgtatagttcaggtattctttgagacacacagtatcattaatttc
10 cgaattgtatttcagtgttattttttgtttgtgaccactaagcttctgtcttaatacaaagctgttaccttctacagaatttaagtctgaagatgtaaagagagaacaggccttgt
gtaacagaagatactcttttttatgctccttactgtgatcacagaaaaattaaaaatccaagtgctctctagatttgttgataaacattttatgcttgcatttaaacttgaaatgt
atgagcagaatgagacaatcagttaaatcagaaatgagaagtattataatgtaaaggccttgttttgctgtagcaataa

203602_s_at HG-U133A

20

203607 at HG-U133A

203645_s_at HG-U133A

gccagacgctggggccatagtgagtgggcacaaggaagacgctgcagtgaattgcacagatatttcagtgcagaaaaccccacaaaaagccacaacaggtc

30 gctcatcccgtcagtcatcctttattgcagtcgggatccttggggttgttctgttggccattttcgtcgcattattcttcttgactaaaaagcgaagacagagacagaggcttg
cagtttcctcaagaggagagaaacttagtccaccaaattcaataccgggagatgaattcttgcctgaatgcagatgatctggacctaatgaattcctcaggaggccattc
tgagccacactgaaaaggaaaatgggaatttataacccagtgagttcagcctttaagataccttgatgaagacctggactattgaatggagcagaaattcacctctctc
actgactattacagttgcatttttatggagttcttcttctcctaggattcc

35 203679 at HG-U133A

а

203725_at HG-U133A

203729_at HG-U133A

20 203731_s_at HG-U133A

25 ccttggatcaggccaagctagactttttctgagccttcat

203753_at HG-U133A

203757 s at HG-U133A

203787_at HG-U133A

203795_s_at HG-U133A

203796_s_at HG-U133A

203808_at HG-U133A

20 203818_s_at HG-U133A

25 203857 s at HG-U133A

gattccacatctcagagtttcctacgttgaagtattttaagaatggagagaaatacgcagtgcctgtgctcaggacaaagaagaagtttctcgagtggatgcaaaaccc tgaggcccccccgcccccagagcccacgtgggaagagcagcagacaagcgtgttgcacctggtgggggacaacttccgggagaccctgaagaagaagaaac acaccttggtcatgttctacgccccttggtgcccacactgtaagaaggtcattccgcactttactgctactgctgatgccttcaaagatgaccgaaagattgcctgtgccg ctgttgactgtgtcaaagaccaagaaccaagacctgtgccagcaggaggcggtcaagggctaccccactttccactactaccactatgggaagttcgcagaaaagta

30 tgacagcgaccgcacagaattgggatttaccaattatattcgagccctcc

203859_s_at HG-U133A

203881_s_at HG-U133A

203897 at HG-U133A

203904_x_at HG-U133A

15

203910_at HG-U133A

acalttgatagtttttcaccccttggctttattttatataaacttttgtttttcagcagttctgaactttttagtattttataaatggtccaaaaaatgcctgtttcagaagtttttgaattcagtgcatttcctcttgatttgtctgggttaaaaccattccttttgtatgaaatgttttgacttaggaatcattttatgtacttgttctacctggattgtcaacaactgaaagtacatatt tcatccaaatcaagctaaaatttatttaagttgatttaagttgattctgagagtacaggtcagtaagcctcattatttggaatttgagagaagtataggtgatcggatctgtttcatttataaa

20 aggtccagtttttaggactagtacattcctgttattttctgggtt

203932_at HG-U133A

tottacggggacacttacacctgtgtggtagagcacattggggctcctgagcccatccttcgggactggacacctgggctgtccccatgcagaccctgaaggtttctgt
gtctgcagtgactctgggcctgggcctcatcatcttctctcttggtgtgatcagctggcggagagctggccactctagttacactcctcttcctgggtccaattattcagaag
gatggcacatttcctagaggcagaatcctacaacttccactccaagtgagaaggagattcaaactcaatgatgctaccatgctctccaacactctaaccccctgac
attacttggatcctatggtttctccatccaattctttgaatttccagtctcccctatgtaaaacttagcaacttgggggacctcattcctgggactatgctgtaaccaaattatt
gtccaaggctatatttctgggatgaatataatctgaggaagggagttaaagaccctcctggggctctcagtgtgccatagaggac

203936_s_at HG-U133A

35 203939 at HG-U133A

203948_s_at HG-U133A

gcagtatggcacgcccaacaacatcgacatctggatgggcggcgtgtccgagcctctgaagcgcaaaggccgcgtgggcccactcctcgcctgcatcatcggtacccagttcaggaagctccgggatggtgatcggttttggtgggagaacgagggtgtttcagcatgcagcagcgacaggccctggcccagatctcattgccccggatca

tctgcgacaacacaggcatcaccaccgtgtctaagaacaacatcttcatgtccaactcatatccccgggactttgtcaactgcagtacacttcctgcattgaacctggctt cctggagggaagcctcctagaggccaggtaagggggtgcagcagtgaggggtatatctgggctggccagttggaaccacggagatctccttgccctagatgagcc cagccctgttctgggtgcagctgagaaaatgagtgactagacgttcatttgtgtgtctca

5 203949 at HG-U133A

10 ccctttctgtaccatttatttgctcccaatgttt

203973 s_at HG-U133A

204000_at HG-U133A

20 gtgctttttgttataggatcccttcttttccttttttgtttttttgtaagatgtagatgctagtcttttttgctttagaaaacttctcacttaaaaagatggcatgcacctaggggaataaa aggtcacctcagacaccaggtgtcattcctgtgtgaggcctgctgtgtgggtctgccggcaggttctggctgcacctgaaggctgcgtgcaccttgtccc ctggacaggtctcctttcttggcctgcccgcccttcttctagtggtagctctggctttgcaggcccaggccctgctcctagagagaccttctccaga gctggagctgggcacagccagaccataagacaggaccagatgctcctgtaaacatccaggggtgtgccaggccaccctcacaactgcttgttcaggtatcgtgat gggccactcggtccaaaatcagccaggccatcttttccatcatctcacttcaaata

25

204030_s_at HG-U133A

204044_at HG-U133A

cggctgacttcgctctgaaggtggaagtggaatgcagcagcagcaggaggtcgtccaggcagctgaggctggcgccgaccttgtcctgctggacaacttcaagcc
agaggagctgcaccccacggccaccgcgctgaaggcccagttcccgagtgtggctgtggaagccagtgggggcatcaccctggacaacctcccccagttctgcg
ggccgcacatagacgtcatctccatggggatgctgacccaggcgtcccagcccttgatttctccctcaagctgtttgccaaagaggtggctccagtgcccaaaatcc
actagtcctaaaccggaagaggatgacaccggccatgggttaacgtggctcctcaggaccctctgggtcacacatctttagggtcagtgaacaatggggcacatttg
gcactagcttgagcccaactctggctctgccacctgctgctctgtgacctgtcagggctgacttcacct

40 204057 at HG-U133A

WO 03/039443 PCT/EP02/12303 · -

204069 at HG-U133A

204075 s at HG-U133A

15 204082 at HG-U133A

atcgtttctctcttgaaagcaccagtgcccagagtctgctcggtaataaaattatggatccagattgttctgagagacgaagatacttgctgctgatagaggtgaaaac gagattgatccgtctggggttttacggtgtgcactgggtgctgcacagacttgtcaaggtttgctacgtcctctgggcatctgcaaaaggccctgctctctggagtgttgtat atagtgtagcaaaagagtatttatacatccaccaatcaaaacacagctttattacctcatgcgaactcatacaaaccaatagaatttcaacatgttctgtagcttagagt gctcacttactacctctgaacaatactcacgctgtagtttgtctct

20

204101_at HG-U133A

204112_s_at HG-U133A

204116 at HG-U133A

40 204118_at HG-U133A

aagctgcaagtgcttgaccctgtacccaagcctgtcatcaaaattgagaagatagaagacatggatgacaactgttatctgaaactgtcatgtgtgatacctggcgagt ctgtaaactacacctggtatggggacaaaaggcccttcccaaaggagctccagaacagtgtgcttgaaaccacccttatgccacataattactccaggtgttatacttg ccaagtcagcaattctgtgagcagcaagaatggcacggtctgcctcagtccaccctgtaccctggcccggtcctttggagtagaatggattgcaagttggctagtggt

acggtgcccaccattcttggcctgttacttacctgagatgagctcttttaactcaagcgaaacttcaaggccagaagatcttgcctgttggtgatcatgctcctcagcagg acagag

204150_at HG-U133A

10

204163_at HG-U133A

15

204174_at HG-U133A

204192_at HG-U133A

tacccgcaggactggttccaagtcctcatcctgagaggtaacgggtcggaggcgcaccgcgtgccctgctcctgctacaacttgtcggcgaccaacgactccacaat cctagataaggtgatcttgccccagctcagcaggcttggacacctggcgggtccagacacagtgcagacactctgcgctgtccctgcagagagccacatctaccgc gagggctgcgcgagggcctccagaagtggctgcacaacaaccttatttccatagtgggcatttgcctgggcgtcggcctactcgagctcgggttcatgacgctctcg atattcctgtgcagaaacctggaccacgtctacaa

204199 at HG-U133A

35 204205 at HG-U133A

204208_at HG-U133A

agagcccttttgcagatacgaaagcaagcttttgccaatgatctttaatggagttaaaatgtttatggtaattgtaacctttcaaatgagttacgtgaaaagagcatctcact tttaatacacccagatattttcttcaagtctttgcgcatttttagcaggacttaattttcctaaatttattctttcctttcaattatggacataggtagttggccttataagtagatc

5 204214_s_at HG-U133A

10 cacatgtggcacttcaaaaggcagcaccactgggcgcctgcacttatttgaaaatggaactttgggagaagtatccctgctagtggctc

204215_at HG-U133A

204225_at HG-U133A

25 204227_s_at HG-U133A

204249_s_at HG-U133A

204269_at HG-U133A

204285_s_at HG-U133A

204306_s_at HG-U133A

204319_s_at HG-U133A

204328 at HG-U133A

204348_s_at HG-U133A

35 204351_at HG-U133A

204352_at HG-U133A

40

204401_at HG-U133A

5 gtagctggacccacgaggaggaaccaggctactttccccagtactgaggtggtggacatcgtctctgccactcctgacccagccctgaacaaagcacctcaagtgc aaggaccaaagggggccctggcttggagtggcttgctgatggctgctggaggggacgctggctaaagtgggtaggccttggcccacctgaggccccaggt gggaacatggtcacccccactctgcataccctcatcaaaaacactctcactatgctgctatggaggacgctccagtctcagttacaagtgcaggcgactggaggcag gactcctgggtccctgggaaagagggtactaggggcccggatccaggattctgggaggcttcagttaccgctggccgagctgaagaactgggtatgaggctgggg cggggctggaggtggcgccccctggtgggacaacaaaaagaggacaccatttttccagagctgc

10

204422_s at HG-U133A

204425_at HG-U133A

25

204446_s_at HG-U133A

cagcaacagcaaatcacgaccactgatagatgtctattcttgttggagacatgggatgattattttctgttctatttgtgcttagtccaattccttgcacatagtaggtaccca attcaattactatt

30 204484_at HG-U133A

35 gagatetgtgtaetgtttaetteecaetteecagaateecttgtateteetttetegggaattg

204495 s at HG-U133A

204501 at HG-U133A

tcatattttgttgtgcactagtgcaattccaagaaaatatcactgtaatgagtcagtgaagtctagaatcatacttaacatttcattgtacaagtattacaaccatatattgag
gttcattgggaagattctctattggctcccttttttgggtaaaccagctctgaacttccaagctccaaatccaaggaaacatgcagctcttcaacatgacatccaggagtga
ctattacttttctgtttagttttacactaggaacgtgttgtatctacagtaatgaaatgtttactaagtggactggtgtcataacttctccattagacacatgactccttccaatag
5 aaagaaactaaacagaaaactcccaatacaaagatgactggtccctcatagccctcagacatttatatattggaagctgctgaggccccc

204511_at HG-U133A · ·

15 204512 at HG-U133A

204562_at HG-U133A

204563_at HG-U133A

204604_at HG-U133A

35

204638_at HG-U133A

204647_at HG-U133A

ccggggctggttttctatgaacgattccggcctgggatgcgggccaggctgcaggcggcatagttgggcccattcgtcctggaaagggactgggggtcccaactta gccctgggtgggccg

10

204661_at HG-U133A

acagccacgaagatcctaccaaaatgaagcgcttcctcttcctcctactcaccatcagcctcctggttatggtacagatacaaactggactctcaggacaaaacgac accagccaaaccagcagccctcagcatccagcatgagcggaggcattttccttttcttcgtggccaatgccataatccacctctctgcttcagttgaggtgacac gtctcagccttagccctgtgcccctgaaacagctgccaccatcatcgcaagagaatcccctccatctttgggaggggttgatgccagacatcaccaggttgtagaa

15 gttgacaggcagtgccatgggggcaacagccaaaataggggggtaatgatgtaggggccaagc

204663_at HG-U133A

gtcaccgagggccgagggatttttgccagtggaagtccttttaagagtgtgactctggaagatggcaagaccttcattcctgggcagggaaacaatgcttacgtgttcc ccggggtggcactgggagtcatcgccggcgggatccggcacatcccagatgagatcttcctcctgacagcagagaaaattgcccaggaagtctctgagcagcatct 20 gtcccaggggagactctatccaccactcagcaccatccgagacgtgtctttgagaattgccatcaaagttctcgactacgcgtacaaacacaacctggcttcctactac ccagagcctaaggacaaggaggcttttgtaagatccctggtctacactccagactatgactcctttacactggacagc

204670_x_at HG-U133A

agactgggtggtgtccacaggcctgatccacaatggagactgaacttccagaccttgtgatgctggaaacagttcctcggagtggagaggtttacacctgccaa

25 gtggagcacccaagcgtgacaagccctctcacagtggaatggagagacacggtctgaatctgcacagagcaagatgctgagtggagtcggggggctttgtgctgggc
ctgctcttccttggggccgggctgttcatctacttcaggaatcagaaaggacactctggacttcagccaagaggattcctgagctgaagtgcagatgacacattcaaag
aagaactttctgccccagctttgcaggatgaaaagctttccctcctggctgttattcttccacaagaggggctttctcaggacctggttgctactggttcagcaactgcag
aaaatgtcctcccttgtggcttcctcagctcctgttcttggcctgaagccccacagctttgatggcag

30 204672_s_at HG-U133A

acagaacaggctcagtcagcatcctcacccagagatggcaacatctattaagaccaatgcaataccttttcatcttcagcaaatgttgtttcatctgtttttgatccttggca ttgtcaaaaacttaactgcaggtccagtgtatatttttccttatttttcccttttagctatctgctaaagcgagtaaatgccacaactgtacttttccaaagaaaaagaactattg acaacttatagcctgtcatgcaggtcatgtttcaaatcaaggct

35 204674 at HG-U133A

40

204703_at HG-U133A

aaatagaacgaccaaaaactgcagccaagaaaaggatcgatgaggatgattttgctgatgaagaattaggagatgatttgcttccagaataatattcactttaatattt attaaaggaaagaaattgccttatgagatcatcctcatgttaaaccttgg

204731_at HG-U133A

10 204776_at HG-U133A

gacatattggcaagccaccccattccgagcagttgcagaacctggcattcagctcaaggctgtgaagtctaagacaggtccaggggagcatctccggaactccctgt ggcacacgggggacaccagtgaccaggtcaggctgctgtggaaggactccaggaatgtgggctggaaggacaaggtgtcctaccgctggttcctacagcacagg ccccaggtgggctacatcagggtacgattttatgaaggctctgagttggtggctgactctggcgtcaccatagacaccacaatgcgtggaggccgacttggcgttttctg cttctctcaagaaaacatcatctggtccaacctcaagtatcgctgcaatgacaccatccctgaggacttccaagagtttcaaacccagaatttcgaccgcttc

15

204793_at HG-U133A

204798_at HG-U133A

204811_s_at HG-U133A

35

204858_s_at HG-U133A

40 ctgcacgagctcggggccgggcgcagccgctgggggagccgctccgcctgggggtgggcgcagagctgctggtcgacgtgggtcagaggctgc

204882_at HG-U133A

tgtgtgtggacatctctgaccatccatcgctgtattcaaatggattgttctattccattctggtctcaggcatgaccacgtccagtgaagacatttgaggcagcacatctcag gacccaggcaatagactggccccaactcaggctggactaaggtgtgattaattctttgttttttgtgtggaacagctcaccttgtcagacagcctcagggcatctctgaga

cacaggggcagaaaatgacattcatcttttgagtcctcatccatggagtgctgtgtttggggggctgcatctgctgaagcgagaaccccattctgccaccccaccaggatgcccattctccaggacttctccaagcttctccaacttactattag

204891_s_at HG-U133A

10 204922 at HG-U133A

ggtettggagcaacatcaccaggetgccaaggcagctgacacacaagagttcaggaccaaactgcacaaagtatttcgtgagatcacccaacaccaatttcttcac
cactgctcatgtgaggtgaagcagcagctaaccctagaaaaaaaggactcagcccagggacactgaggacgcacctgataacagcagcatgagactcatgcag
ataccagcgggcaagcagaaaacaagaggctcaagaggggcagccccgcatagaggagatgcgagctctgcgctctgccagggccccgagcccgtcagag
gccgccccgcgcccgccggaagccaccgcggcccccctcactcctagaggaagggagcaccgcgaggctcacggcagggccctggcgccgggcaggggg

gcctcggaagccgcctggaggacgtgctgtggctgcaggagggtctccaacctgtcagagtggctgagtcccagccctgggccctggggccctggcggagcccttccgcaag
ccccaccgatccggaggctgcgggcagccgttatccc

204951_at HG-U133A

25 204992 s at HG-U133A

aagagcaaaaagcacttcctcccatgaccttacagtaaccatactgattgaatcccaagggacattccatcattgcaatagctcagatttticttcctttttctttgcacacc agctctactctttagtaaaattgtaaaaggctgccattatggacattaggtatcccaacataaccatctggagtgtgccagtttgttcttcataggaccaatttttatttgcag cttgagtttttatatgaagttgcattattgtggacttggctgtccttgaatttttttcatatgtattctgtgccatactattgttaaaatgaactgttgctattgtgagatggatttaact gacctattaagggtttctttcgaatggcactactttagggacattctagtatttgcttctattgtttgggccttgtggataatgtacagatttaaaaacaaatcttgttgctgatttgt 30 ccatttctttccctgcacttgttacatctggg

205019_s_at HG-U133A

205040_at HG-U133A

205041_s_at HG-U133A

205049_s_at HG-U133A

15 205051 s at HG-U133A

caggtatgttgcctttatggtttccccttctacatttcttagactacatttagagaactgtggccgttatctggaagtaaccatttgcactggagttctatgctctcgcacctttc
caaagttaacagattttggggttgttgtcacccaagagattgttgtttgccatactttgtctgaaaaattcctttgtgtttctattgacttcaatgatagtaagaaaagtggttg
ttagttatagatgtctaggtacttcaggggcacttcattgagagttttgtctattgcatactttgtctgaaaaattcctttgtgtttctattgacttcaatgatagtaagaaaagtggtt
gttagttatagatgtctaggtacttcaggggcacttcattgagagttttgtcaatgtcttttgaatattcccaagcccatgagtccttgaaaatattttttatatacagtaacttt
20 atgtgtaaatacataagcggcgtaagtttaaaggatgttggtgttccacgtgttttattcctgtatg

205055_at HG-U133A

agagatctcctgggatcactctgaggagttactaaaagatgtaactgaactgcagatccttggtgaaatatctttcaacaaatctctatatgagggactgaatgcagag
aaccacagaactaagatcactgtcgtcttcctgaaagatgagaagtaccattctttgcctatcatcattaaaggcagcgttggtggacttctggtgttgatcgtgattctggt
25 catcctgttcaagtgtggcttttttaaaagaaaatatcaacaactgaacttggagagcatcaggaaggcccagctgaaatcaggaagatctgctcgaagaagagaatt
aggacctgctatccactgggagaggctatcagccagtcctgggacttggagacccagcatcctttgcattactttttccttcaggatgatctagagcagcatggagctgtt
ggtagaatattagtttttaaccatacattgtcccaaaagtgtctgtgcat

205059_s_at HG-U133A

30 gacceaagggcagctggttctggtctggtctggtcggatgaacacgtgggctccaagtgcctgtggacatacgagatccagttctctcaggacggtaaggcgtacaccccg gtcagcaggaagccatcgaccttcaacctctttgtgttcagcccagacacaggtgctgtctctggctcctaccgagttcgagccctggactactgggc

205074_at HG-U133A

40 205076 s at HG-U133A

ccttctggataaccagatgttaaatcatgagatcagagatgctgttcatcagtcccaacaagatggcctagaaatcgcattctcacctcgccttgctgctgctttaattcca agttctatttcttcccttatagttttctatgggaatgaggcggatacaggaaacaccctatctcctc

205101_at HG-U133A

10

205105_at HG-U133A

acttetteteteatgaateateeagteatteeaatggeaaataagtteteacetaeeettgagetgeaaggtgaatteteteeattaeagteatetttgeettgtgaeatteatet
ggttaatttgagaacaataeagteaaaggtgggeaatgggeacteeaatgaggeageettgateeteeaaagggtttgattgteggttetetageaaaggeae
agggetgttttgttetaetaeteagggaaagatattggtaeagaaaettttaaaeaagtttattgtegaaagteteacaeetteateaetateettgatgaeateeeegg
15 caeteagaatataagtgagateaaettgagteeaatggaaateageaeatteegaateeagttgaggtgaaeetgaettteaeatttggattgaggaateattggetttata
cetttettggt

205110_s_at HG-U133A

25 205131_x_at HG-U133A

205145 s at HG-U133A

205192_at HG-U133A

40 atcagtgtccagcgtgctggttccccagagcacagctcagcatcacactgacactcaccctgccctgccctggccagagggtactgccgacggcactttgcactctg
atgacctcaaagcactttcatggctgccctctggcagggcagggcagggcagtgacactgtaggagcatagcaagccaggagatggggtgaagggacacagtct
tgagctgtccacatgcatgtgactcctcaaaacctcttccagatttctaagaatagcacccccttccccattgccccagcttagcctcttctccaggggagctactcagg
actcacgtagcattaaatcagctgtgaatcgtcagggggtgtctgctagcctcaacctcctggggcaggggacgccgagactccgtgggagaagctcattcccacat
cttgccaagacagcctttgtccagctgtccacattgagtcagact

205223_at HG-U133A

205225_at HG-U133A

10 attgctgcctctattatggcacttcaattttgcactgtcttttgagattcaagaaaaatttctattcatttttttgcatccaattgtgcctgaacttttaaaatatgtaaatgctgccat gttccaaacccatcgtcagtgtgtgttttagagctgtgcaccctagaaacaacatacttgtcccatgagcaggtgcctgagacacagacccctttgcattcacagaga ggtcattggtatagagacttgaattaataagtgacattatgccagtttctgttctctcacaggtgataaacaatgctttttgtgcactacatactcttcagtgtagagctcttgtt ttatgggaaaaggctcaaattgccaattgtttgatggattaatatgcccttttgccgatgcatactattactgatgtgactcggttttgtcgcagctttgtttatgaaa cacacttgtaaaccatttttgcacttttgaaaaagaatccagcgggatgctcgagcacctgtaaacaatt

15

205267_at HG-U133A

20 atgacttttctgggaaatgacagtttctttgacatattttctttgcccactt

205306_x_at HG-U133A

205308_at HG-U133A

35

205312_at HG-U133A

205316_at HG-U133A

205349 at HG-U133A

10 aggagaaggaacgccttccaggaacctgtggactaggggtgcagggacttccctttgcaaggggtaacagaccgctggaaaacactgtcactttcagagctcggt ggctcacagcgtgtcctgccccggtttgcggacgagagaaatcgcggcccacaagcatcccccatcccttgcaggctggggctggggcatgctgcatcttaacctttt gtatttat

205355_at HG-U133A

20 205366_s_at HG-U133A

cctcagcctgatcaggcttcctggtgagaactgaggagcggactcacttgatgtttcctggaagcagagcaaaagttctcttgtccctgtcgcgtctcattttgtccatgtccccggtgacggttcaatggtagattcgctgtcctcagcgggggccttgaagactccctgatcccagacctggtcgtctctcccaccccctccccaaagccactggaag

25 205380_at HG-U133A

30

205382 s at HG-U133A

35 ag

а

205383 s_at HG-U133A

205414_s_at HG-U133A

attacgttacccaeagcatgtggaggaaaagtgaaaccagccacggagacgctggcccacggctcggcctgcgtgggctgctttgctcaccagcgtcagccg ctcatttccttcatgaagtccatctggtcatggggacgagggccgggagggcaccgggtagccttttcacacttggggattaggggagtgagaaaagatttgggc catgcatgcaaagtcaaagtttaaaattttatccttttcaaatagatgatataatatacctatacatgatataatatttgtatatatgaaatctctctatatttgtttaatttgagcc 5 attcaatctaaaccaatgtacaggtgtacaatgaaaaatttaaatgcttagttatttttcccaaccacgtgtaaagtcaccctcctctgagagtgggatgtgcaggttttg atgttgcagctttgctcacttcctggcaagggcaggtcatgcctcaatttgtaatgggagtctggggtaagggtg

205420 at HG-U133A

attatgcttttatatgctattcagatttcaaatctttccaatttaccctggaatcagttttgagggagctgataaagactttagctgactcgttaagcctgatacataagccatatt

10 taaaattctaagaaataattaatgttatgatatatcttgtagtatctattaaaatgtagtctctgggtcataaaatggattaaaatatgggagatcagtaggttatacgtata

205436 s at HG-U133A

tecctecatetteatteataggtetgegetggggeegggaegaageacttggtaacaggeacatetteeteegagtgaetgeeteetaggaggaeatttaggggaggg cagaggeetgeagtttggetteaeggetggetatgtggaeageaagaegtegttttgeggaaegegaetggeageeaggeetgtegggeeeeegaegeeceattt 15 ceetteeageaaacteaacteggeaateeaageacetagataeeageacaagteggttaateeetgtetggaetgageeteegttggettetgaaetggaattetgeag ctaaecetteeaegaetagaaeettaggea

205453_at HG-U133A

205471_s_at HG-U133A

25 ttcctgatggactgtcttccatcgagactcttctgactaacatacaggggctgttgaaagttgccatagataatgccagagctcaagagaaacaggtccaactggaaa aaactgagctgaagatggattttttnnaagggaaagagaactaagggaaacacttgagaagcagttggctatggaacaaaagaatagagccatagttcaaaaga ggctaaagaaggagaaggaaaattgcaggaagcacttgagtttgagacgaaacggctgaacaagcagaacagacgctaaaacaggcagc ttcaacagatagtctcagggtcttaaatgactctctgaccccagagatagaggctgaccgcagtggcggcagaacagatgctgaaaggacaatacaagatggaag actgtatttgaaaactactgtcatgtaatgaatctttcctgttgaagaaatccatgttatagaaaaagaactttgcagtcagacattcgtca

205472 s at HG-U133A

30

35 aatgcaagagtgattttctgttacattcaatttcaaactctctaattgtgggttttct

205504_at HG-U133A

205513_at HG-U133A

205528_s_at HG-U133A

205529_s_at HG-U133A

20 205541_s_at HG-U133A

25

205547_s_at HG-U133A

205557_at HG-U133A

ctcaagctggataggctgctcctggaactgaagcactcaaatattggccccttcccggttgaattgctgcaggatatcatgaactacattgtacccattcttgtgctgccca

35 gggttaacgagaaactacagaaaggcttccctctcccgacgccggccagagtccagctctacaacgtagtgcttcagcctcaccagaacttcctgctgttcggtgca
gacgttgtctataaatgaaggcaccagggtgccgggggctgtcagccgacctgttcctgatgggctgtgggggcaccggctgcctttcccagggaatcctctcccag
atcttaaccaagagccccttgcaaacttcttcgactcagattcagaaatgatctaaacacgaggaaacattattcattggaaaagtgcatggtgtattttagggattat
gagcttctttcaagggctaaggctgcagagatatttcctccaggaatcgtgtttcaat

40 205599_at HG-U133A

gtgccagtttgaatgcagtctgtccaggctcgtcattggaggtgaacaagcaaacccagacggctccactaggacttcaaattgggggttggatttgaagacttttaagt ttccttccagcccagaaagtctctcattctagcctcctggcccaggtgagtcctagagctacaggggttctggaaacattcaggagcttcctgtcctcccagctcctcact caccttcagtaacccccactggactgacctggtccacagggcacctgccaccctgggcctggcagcttcagcttccaacacgcaggagcacacccagcccccac

atcctgtgcctccatcagctaaacaccacgtcacttcatgcaggtgaaacccagtcactgtgagctcccaggtgcagccagaggcacctcaagaagaagaggggcatcactttcctgcctagaggccccacctttggtgctttccagaatcccgtaacacctgattaactgaggcatccacttctttcagcagactgat

205600 x at HG-U133A

10 tctgaatgtttgtgtctgtggttgcagtctttcc

205601_s_at HG-U133A

205607_s_at HG-U133A

25

205613_at HG-U133A

gettetgteaetgaattateteeeaagtgetggeagaetgaatgttgatgteattegageeaageaacttetteagaeagatgtgageeaaggtteagaeeettttgtgaa
aateeagetggtgeatggaeteaaaettgtgaaaaceaagaagaegteettettaaggggeaeaattgateetttetaeaatgaateetteagetteaaagtteeeeaag
aagaaetggaaaatgeeageetagtgtttaeagtttteggeeaeaaeatgaagageageaatgaetteategggaggagteeteattggeeagtaetetteaggeeeet
ctgaggaeeaaeeactggaggegeatgeteaaeaegeaegeaegeagtggageagtggeatageetgaggtgaeeggagtgtgaeeggagtgteeegagtgteeegagtgteeeggtgteeeggtgteeeggagtgeeetgaggtgeeetgaggge

205614_x_at HG-U133A

40 205624_at HG-U133A

tatgaaacccgctacatctatggcccaatagaatcaacaatttacccgatatcaggttcttctttagactgggcttatgacctgggcatcaaacacacatttgcctttgagc tccgagataaaggcaaatttggttttctccttccagaatcccggataaagccaacgtgcagagagaccatgctagctgtcaaatttattgccaagtatatcctcaagcat acttcctaaaggaactgccctctgtttggaataagccaattaatccttttttgtgcctttcatcagaaagtcaatcttcagttatccccaaatgcagcttctatttcacctgaatcct

205627_at HG-U133A

10

205640_at HG-U133A

205653_at HG-U133A

25

205663_at HG-U133A

205668_at HG-U133A

205671_s_at HG-U133A

205674 x at HG-U133A

cageccatteacctggggaaatgactggttgtegatggaeggtggeggeagecceaagggggaegtggaecegttetactatgaetatgagaecgttegaatgg
gggectgatettegetggaetggeetteategtggggeteeteateeteeteageagaagatteegetgtgggggeaataagaagegeaggeaaateaatgaagatg
agecgtaaeageageeteggeggtgeeaeccaetgeaetggggeeagetgggaageeaageatggeeetgeeteteggggetttagaee
tttgteeeegteaetgeeagegettgggetgaaggaageteeagaeteaatgtgaeee

205690_s_at HG-U133A

205691 at HG-U133A

20

205718_at HG-U133A

205790_at HG-U133A

35 205801_s_at HG-U133A

gcagtcttcagtaaagcctttctcctttcttttctccattgaggacagttctgctcagcaaaattgttgagtacctgttctgggcaggtcccacgctatatgcacaaagttaag aaaaacttggtcttagcccttgggagctgacagcccatgggcattaaggcaaagtagttccagtgatttaaaatacggttccaaatacgctaaaaccaacttgtgcca accagatttacagattggaaatactgcagatgatgtgaagttatcagttggaggagctgtgattaagctggataataagagaacgtgccatctgtaaagcactcagaa ggcagccatccctagatgttggtttcatgtatattacactatctactactatccat

40

205805_s_at HG-U133A

5 205821_at HG-U133A

10 tatgtttgtcccactattgta

205837_s_at HG-U133A

205841_at HG-U133A

25 205849_s_at HG-U133A

agaaggcaacgcttctctttctggtcaaaatggctggtaagcaggccgtttcagcatcaggcaagtggctggatggtattcgaaaatggtattacaatgctgcaggattc aataaactggggttaatgcgagatgatacaatatacgaggatgaagatgtaaaagaagccataagaagacttcctgagaacctttataatgacaggatgtttcgcatt aagagggcactggacctgaacttgaagcatcagatcttgcctaaagagcagtggaccaaatatgaagaggaaaatttctaccttgaaccgtatctgaa

30 205855_at HG-U133A

35 205863_at HG-U133A

tagctccacattcctgtgcattgaggggttaacattaggctgggaagatgacaaaacttgaagagcatctggagggaattgtcaatatcttccaccaatactcagttcgg aaggggcattttgacaccctctctaagggtgagctgaagcagctgcttacaaaggagcttgcaaacaccatcaagaatatcaaagataaagctgtcattgatgaaat attccaaggcctggatgctaatcaagatgaacaggtcgactttcaagaattcatatccctggtagccattgcgctgaaggctgcccattaccacacccacaaagagta ggtagctctctgaaggctttttacccagcaatgtcct

40

205899_at HG-U133A

aaggetteaaagtacetgtgtgtgteeteetggageeaeetgeagttettettetaeaataagtttetgaatggaageaetteeagaaetteaeeteeagaagtgeeaataategteataggettetgeaegttggate

205901_at HG-U133A

10

205911_at HG-U133A

205933 at HG-U133A

25

205945_at HG-U133A

205997_at HG-U133A

gatggtaaaggctgttcaaccccaagagatgagtcagatgaagccccatgtgtatgatctgccagtagaaggcaatgagcccccagcctcttttcataaagacacaa
35 acgcacttccccctactgtttcaaggataatccaatgtctacacctaaggactcaaatccagaagcatgaagcaacagctaagcaagaactaatggttaaattatca
acttggaaaacttggaaaatctggatgccagagaaatatactatctcaccagtatttgctctcgactcaagaaggttaacattttctgattcatgttagactttgaagagac
taaagaaaattttcaagaggaacatatgcctgagaacctttgca

206009 at HG-U133A

40 ggatcatcgccatcagtttgttggtgggaatcctcatcttcctgctgctggccgtgctgctctggaagatgggcttctttcgccgaaggtacaaagaaattatcgaagctga gaagaaccggaaagagaatgaagacagttgggactgggtccagaaaaaccagtgagctgccacaccagtcacatgacctgatcactagcctgtcatccttggtctt tgtatcttccatatttggaaaaaaaaatcttctccagatttttcggaggccccactgatgctgttctcttcttcattctatcaagcccaggtgccagcctgaggcagccactt cggccaggtcacacgaccgggggcagcaccacttcgctttaaagactctgaactttggaggtgacagagccgagcaatatttaggatgcaacacgcatggtcac

cctcaggggaaaactgttaaagtatttttataaatataagccttttatactgattattcttttatatttgtatcgatattatttctattaaatagttataattcactcaagcactgattct ggccta

206090_s_at HG-U133A

10

206111_at HG-U133A

gtttacctgggctcaatggtttgaaacccagcacatcaatatgacctcccagcaatgcaccaatgcaatgcagtcattaacaattatcaacggcgatgcaaaaacc aaaatactttccttcttacaacttttgctaacgtagttaatgtttgtggtaacccaaatatgacctgtcctagtaacaaaactcgcaaaaattgtcaccacagtggaagcca ggtgcctttaatccactgtaacctcacaactccaagtccacagaatatttcaaactgcaggtatgcgcagacaccagcaaacatgttctatatagttgcatgtgacaac 15 agagatcaacgacgagaccctccacagtatccggtggttccagttcacctggatagaatcatctaagctcctgtatcagcactcctcatcatcactcatctgccaagctc ctcaatcatagccaagatcccatctcccatatactttggg

206126_at HG-U133A

206135_at HG-U133A

30

206150_at HG-U133A

206177_s_at HG-U133A

· 206178_at HG-U133A

gctcgtctactgcctcaagagaaacctacggagctacaacccaagtaccaatactttcccaacatcctctgctcctaggcctccccaggggctcctccaggacca agacttttgttctgtttttctacaacacagagtactgactctgcctggttcctgagagaggctcctaagtcacagacctcagtctttctcgaagcttggcggacccccaggg ccacactgtaccctccagcgagtcccaggagagtgac

5

206207_at HG-U133A

206241_at HG-U133A

20 206245_s_at HG-U133A

206255 at HG-U133A

206295_at HG-U133A

35 ggaaatgaatcctcctgataacatcaaggatacaaaaagtgacatcatattctttcagagaagtgtcccaggacatgataataagatgcaatttgaatcttcatcatac gaaggatactttctagcttgtgaaaaagagagagacctttttaaactcattttgaaaaaagaggatgaattgggggatagatctataatgttcactgttcaaaacgaaga ctagctattaaaatttcatgccggggcagtgacccagcctgtaatcccagccctttgggaaggctgaggcggggcagatcaccagaggtcaggtgttcaagaccagc ctgaccaacatggtgaaacctcatctctactaaaaaatactaaaaattagctgagtgtagtgacgcatgccctcaatcccagctactcaagaggctgaggcaggagaa tcacttgcactccggaggtagaggtt

40

206302_s_at HG-U133A

WO 03/039443

attcaccccaaaacttgttttacaggattacaattttaattcaaaatttccagatttgggctatttctgtatgatccaataacttattttgtcacagggcttaatttgccatttttggg gatttgtcgactcattttgtctgaattttcacaactggtattatgtcactagctacctgatacggctatttcccttataactcaatag

206337 at HG-U133A

- 10 gagcaacattttacccacaca

206380_s_at HG-U133A

cccacatctgcaacaagctgtgccctgccctgtggatgggatgggactcgtgggggagtggagccctgtatccgacggaacatgaagtccatcagctgtca agaaatcccgggccagcagtcacgcgggaggacctgcaggggccgcaagtttgacggacatcgatgtgccggggaacaagcaggatatccggcactgctacag 15 catccagcactgccccttgaaaggatcatggtcagagtggagtacctgggggctgtgcatgcccccctgtggacctaatcctacccgtgcccgccagcgcctctgca cacccttgctccccaagtacccgcccaccgtttccatggtcgaaggtcagggcgagaagaacgtgaccttctgggggagaaccgctgccacggtgtgaggagctac aagggcagaagctggtgggggagaaacgaccatgtctacacgtgcctgcttgcaaagaccctgaggaagaagaggaactctaacacttctctcct

206398_s_at HG-U133A

20 teetteteeaaegetgagtettatgagaaegaggatgaagagetgaeeeageeggtegeeaggaeaatggaetteetgageeetetagggteageetgggaeeeaa geegggaageaaeeteetggggteeeagteetatgaggatatgagaggagateetgtatgeageeeeageeteggteeageetggggeeageetgggeeageetgggeeageetggggeeageetggggeeageetggggaggagggggggeegeatggggeeaceaggtgatee teaggtggeeageetggateteetaagteeeeaagttgatee teaggtggeeageetggateteetaagteeeeaagatteaeacetgaetetgaaatetgaagaeetegaggaggaggaggaggaggaggagaeettggageaatgttgettaggat gtgtge

25

206438_x_at HG-U133A

206440 at HG-U133A

40

206461_x_at HG-U133A

206488_s_at HG-U133A

206513_at HG-U133A

206515_at HG-U133A

20

206519_x_at HG-U133A

206530_at HG-U133A

35

206550 s at HG-U133A

206576_s_at HG-U133A

5 206622_at HG-U133A

10 taaatgtgtgtgggaatattgaaacatcgcctaggaattgtggtttgtatataaccctctaagcccctatcccttgtcgatgacagtca

206633_at HG-U133A

gacattgatatctctgacatttctggaaagccagggcctccacccatgggcttccactctcccctgatcaaacaccccgaggtgaaaagtgccatcgagggcatcaa gtacatcgcagagaccatgaagtcagaccaggagtctaacaatgcggcggcagagtggaagtacgttgcaatggtgatggaccacatactcctcggagtcttcatg 15 cttgtttgcatcatcggaaccctagccgtgtttgcaggtcgactcattgaattaaatcagcaaggatgagcagaaaatgagctgagcttagctctgccctggaacctacc agagcagagaagggcaggaaggaagatttgtctacttgctccactcgcacttatcaaacgtgt

206634 at HG-U133A

25 206676 at HG-U133A

206748 s at HG-U133A

206759_at HG-U133A

206760 s at HG-U133A

ttgagcatggatacagccagggccagagcaagaccctgaagaccccaaccacggcctaaaagcctctttgtggctgaaaggtccctgtgacattttctgccacccaaccgggcgagggagcagctgacacatctcccggtcctctatggccctgccttcccaggagtacaccccaacagcaccctctccagatgggagtgc

206761_at HG-U133A

10 206772_at HG-U133A

15 gctgcatctatatctttttcttgtttgagctgttactacat

206781_at HG-U133A

25 206804 at HG-U133A

gtaatgccaaggaccctcgagggatgtatcagtgtaaaggatcacagaacaagtcaaaaccactccaagtgtattacagaatgtgtcagaactgcattgaactaaat gcagccaccatatctggctttctctttgctgaaatcgtcagcattttcgtccttgctgttggggtctacttcattgctggacaggatggagttcgccagtcgagagcttcagac aagcagactctgttgcccaatgaccagctctaccagcccctcaaggatcgagaagatgaccagtacagccaccttcaaggaaaccagttgaggaggaattgaact caggactcagagtagtccaggtgttctcctcctattcagttcccagaatcaaagcaatgcattttggaaagctcctagcagagagactttcagccctaaatctagactca

30 aggttcccagagatgac

206847_s_at HG-U133A

206850_at HG-U133A

206871_at HG-U133A

206940_s_at HG-U133A

15

206956_at HG-U133A

20 206995 x at HG-U133A

207000_s_at HG-U133A

207030_s_at HG-U133A

207057_at HG-U133A

35 gcattttgggg

40

207076 s at HG-U133A

gcaaggtcactgccaaatagacccgtgtacaatgaggagctgggggcctcctcaatttgcagatcccccaagtacaggcgctaattgttgtgataatttgtaattgtgact tgttctccccggctggcagcgtagtggggctgccaggcccagctttgttccctggtccccctgaagcctgcaaacgttgtcatcgaa

207168_s_at HG-U133A

10

207194_s_at HG-U133A

15 agtcgaggttgcag

207224_s_at HG-U133A

20 ctcctctgtacttctctaaggatgactactttagattccgaatat

207269_at HG-U133A

207384_at HG-U133A

30 tgagcctggagcggctcaggagacagaagacccggcctgctgcagccccatagtgccccggaacgagtggaaggccctggcatcagagtgcgcccagcacc tgaagacactggccttacgctatgtggtggtatcgacacggcgggcagcagctgcaacacccccgcctcgtgccagcagcaggcccggaatgtgcagcactaccaca tgaagacactgggctggtgcgacgtgggctacaacttcctgattggagaagacgggctcgtatacgagggccgtggctggaacttcacgggtgcccactcaggtca cttatggaaccccatgtccattggcatcagcttcatgggcaactacatggatcgggtgcccacaccccaggccatccgggacgcccagggtctactggcctgcggtgt ggctcagggagccctgaggtccaactatgtgctcaaaggacaccgggatgtgcagcgtacactctctccaggcaaccagctctaccacctcatccagaattggcca cactaccgc

35

207403_at HG-U133A

207520_at HG-U133A

atatgtacccattccttcaaggcaactggtatcagtttttaagtgtgatttacctgagatatttttgttcagcaaagctcatagcaccctcacccccactccagacatgcant gcttctgatgttgttcacgtttttaaccctgtcaagcattgaactgaatatattagctacttttgacacattaaaatattacgttcagattgaatttaaagttaaagaaactaata gaattacgtaatagttattgaantgtttaagtaaaacccaagatcttaaaaattataacatgatcattttattcctaatagaaatgttaaatagaatatagtacaaaagtgcatt accttcagttgtgtactatttccataaatacttttagacaaatatatctataagttaanattaaatccatcaaggatacaagattggatggatatgacctttctgaagta

5

207543_s_at HG-U133A.

207616_s_at HG-U133A

tcagggaettgaccccatagcttcagctatacaaaaccctaaaacaactgacaaaacaaagccctcaaatctgtaaacacttgtatcaggacaactctggataga

15 gctgcgtgtttgccacctggagaccataatgcattatatgtaaatagcttcccacttctggacccatctgatgcaccttttccctcactcgattcccgggaaaagcaatcc
gaggaccacagcagcccatttggaagccctttcctaatcaagacagtgactcggtggtactaagtggcacagactcagaactgcatatacctcgagtatgtgaattct
gtcaagcagttttcccaccatccattcaatccaggggggatttccttcggcatcttaattcacacttca

207641_at HG-U133A

- 25 cgtgcaataaagtcctcgtgcctgc

207654_x_at HG-U133A

207655_s_at HG-U133A

40

207697_x_at HG-U133A

cagactccacactcagtagaaggagactcaggactgctgaaggcacgggagctgccccagtggacaccaatgaaccccagtcagcctggacccctaacaaa gaccatgaggagatgctgggaactttgggactcacttgattctgcagtcga

207700_s_at HG-U133A

5 cctctctttgacacctgttttagtcagttgggaggaagggaaaatcaagtttaattcctttaictgggttaattcatttggttcaaatagttgacggaattgggttctgaatgt ctgtgaatttcagaggtctctgctagccttggtatcattttctagcaataactgagagccagttaattttaagaatttcacacatttagccaatctttctagatgtctctgaaggt aagatcatttaatatctttgatatgcttacgagtaagtgaatcctgattatttccagacccaccaccagagtggatcttattttcaaagcagtatagacaattatgagtttgcc ctctttcccctaccaagttcaaaatatatctaagaaagattgtaaatccgaaaacttccattgtagtggcctgtgcttttcagatagtatactctcctgtttggagacagagg aagaaccaggtcagtctgtctctttttcagctcaattgtatctgacccttctttaagttatgtgtg

10

207734_at HG-U133A

gctgttgatatccattccttgagtttatccatactcaacagtaaaaaatgaactcttggttcacacaataatatagacatatcttaaatccattttgctaagtgaaagaagcta
ggcctaaaagtctacatgttggggcgattctatttatatgacattctggaaaaggcaaaactatagggatgaagaacagatcagttgttgtcaggtttgagaaaaggag
ggaagtttgctacaaaggggctgcaaaggggataggctgatggagctgttctgtatggtactgtgtggggatacatgacaatatccatttgcaaacacaagaactata

15 cacatggccaggcgggtggctcacacccgtaatcccagcactttgcggggccgaggcaggggaacacaaggtcaggagatcaagactgtcctggacaacatg
gtgaaaccctgtctctactgtctctaacatttgtaaacctgtctctaatttgtaattttgtaaaccctgtctctcatatttt

207760 s at HG-U133A

25 207777_s_at HG-U133A

207801_s_at HG-U133A

40 207802 at HG-U133A

caaatgacgtcttcaccaagtgatcaaaattaacgtcaccagtgataagtcattcagattigttctagataatctttctaaaaattcataatcccaatctaattatgagctaa aacatccagcaaactcaagttgaaggacattctacaaaatatccctggggtattttagagtattcctcaaaactgtaaaaaatcatggaaaataagggaatcctgagaa acaatcacagaccacatgagactaaggagacatgtgagccaaatgcaatgtgcttcttggatcagatcctggaacagaaaaagatcagtaatgaaaaaactgatg

aagtotgaatagaatotggagtattttaacagtagtgttgatttottaatottgacaaatatagcagggtaatgtaagatgataacgttagagaaactgaaactgggtga gggctatotaggaattototgtactatottaccaaatttto

207809_s_at HG-U133A

10 207819_s_at HG-U133A

15 207871_s_at HG-U133A

20

207957_s_at HG-U133A

25 gtatttgtaatttttcaagtcagaagctgatgttcctggtaaaagtt

207971_s_at HG-U133A

207983_s_at HG-U133A

40 207996 s at HG-U133A

208033_s_at HG-U133A

208042 at HG-U133A

10 aacagagaaccatgctccttggtcaatctcagattatttttatcagacgtactacaatgacgttagtcttccaaataaagtgactgaactgtcagatcaacaagatcaag ctatcgaaacttctattttgaattctaaagaccatttacaagtagaaaatgatgcttaccctggtaccgatagaacagaaaatgttaaatatagacaagtggaccattttg cctcaaattcacaggtaataaaatgctaaacatgaaactgttgatgcccaagaacctgtccttctttgttgttattatgtggaaagatagacttctttggtgccacagcat atataagggttataaacattcttatgtgtaattatgcaaagaatgttgtagttttccaaaaccagaattagaacttcttcatatatgtagtggttttcciactacattgtgttccaa aa

15

208091 s at HG-U133A

gacaactgcgtgggtccaaacactcctcttcctccaggtcatttgttttgcatttttaatgtctttattttttgtaatgaaaaagcacactaagctgccctggaatcgggtgca gctgaataggcacccaaaagtccgtgactaaattccgtttgtctttttgatagcaaattatgttaagagacagtgatggctagggctcaacaattttgtattcccatgtttgtg tgagacagagtttgttttcccttgaacttggttagaattgtgctactgtgaacgctgatcctgcatatggaagtcccactttggtgacatttcctggccattcttgtttccattgtgt

 ${\bf 20} \ \ {\bf ggatggtgggttgtgcccacttcctggagtgagacagctcctggtgtgtagaattcccggagcgtccgtggttcagagtaaac}$

208141_s_at HG-U133A

ggaggattqcgagggaagccaggggaggatcgcgagggaagccaggggaggatcgcgagggaagccaggggaggatcgcgagggaagccaggggaagccaggggaagccaggggaagccaggggaagccaggggaagccaggggaagccaggggaagccaggggaagccaggggaagccaggggaagccaggggaagccaggggaagccaggaagccagggaagccaggaagcagaagccaggaagcagaagccaggaagccaggaagcc

208146_s_at HG-U133A

35 208168_s_at HG-U133A

ttcaggcaccccagagcttgaagttccaaaaccaggtcagccctctgaacctgagcatggccccagccctggacaagacacgttctgccagggcaaagctgatgg gctctatcccaatcctcgggaacggtccagcttctacagctgtgcagcgggggcggctgttccagcaaagctgcccgacaggcctggtgttcagcaactcctgcaaat gctgcacctggaattgagtcgtaaagcccctccagtccagctttgaggctgggcccag

40 208190_s_at HG-U133A

WO 03/039443 - PCT/EP02/12303- -

208195 at HG-U133A

10 208217_at HG-U133A

208229_at HG-U133A

20

15

208248_x_at HG-U133A

208268 at HG-U133A

tttccctgtgcatgtgcgaaggaaaatcatttcagatgacagtgtttaaccatggtcaaaagaccattctgtcctatccttcttagaagcttcgaactcaaaatcatggaa

30 aggtttaagatttgaggttggttttagggttgctagatttagcaagtaaaaataaggatggccccgttaaatttaacttaaaaattaacaagtttttgttaattttttgttttttgtct
cagcatcagtatatcccatgcaatatttgaggtgtgctcatactaaaattatttgtgtatctgaaattcaaattaaactgggtgtctttttcttttcatctggcaaccctactaaga
tcataaacccttggaaatcigtgtgtgtgc

208302_at HG-U133A

35 tgccccgcatctcagaagccgggcaggccctgagccttctgacctcacatcctctgccacaccacagtggagaaaccagaactggaggagcagccagaattgcag agaagaaaaaagaggttctctgcatgtttggaagtcggaattggttgaagttgaagttgaagtgtgtatctgaggcacagctcttccctgacttataggctttgacactgctgt tgaggtttgactcgaagcccagagttttggtggatgagcagggacaaattgctgagcatgaagaagagagaaaaattaagccagtggaacatatgccctt

208306_x_at HG-U133A

208456_s_at HG-U133A

gatccaaccattgaagattcttacacaaagcagtgtgtgatagatgacagagcagcccggctagatattttggatacagcaggacaagaagagttttggagccatga gagaacagtatatgaggactggcgaaggcttcctgttggtcttttcagtcacagatagaggcagttttgaagaaatctataagtttcaaagacagattctcagagtaaag gatcgtgatgagttcccaatgattttaattggtaataaagcagatctggatcatcaaagacaggtaacacaggaagaagaagacaacagttagcacggcagcttaaggt aacatacatggaggcatcagcaaagattaggatgaatgtagatcaagctttccatgaacttgtccgggttatcaggaaatttcaagagcaggaatgtcctccttcacca gaaccaacacggaaagaaaaagacaagaaaggctgccattgtgtca

208470_s_at HG-U133A

15

208581_x at HG-U133A

gegtgtttteetettgategggaacteetgetteteettgeetegaaatggaeceeaactgeteetgetegeetgttggeetgtgeetgtgeeggeteetgeaaatgeaaa gagtgeaaatgeaceteetgeaagaagagetgetgeteetgetgeeetgteggetgtgeeaagtgtgeeeagggetgeatetgeaaagggaegteagaeaagtgea getgetgtgeetga

20

208611_s_at HG-U133A

208612_at HG-U133A

35 208614_s_at HG-U133A

40 aggcagacctttaggttttgctgcttagtcctgaggaagtggccactcttgtggcaggtgtagtatctggggcgagtgttgggg

208623 s at HG-U133A

208629_s_at HG-U133A

10 tggaaaaattgacagcgtatgccatgactattccatttgtcaggc

208645 s at HG-U133A

gaagaacaggtcatcagcctcaggtggctgaaggagaagaatgtatttggtgtctgccatatctttgcatccttcaatgacacttttgtccatgtcactgatctttct ggcaaggaaaccatctgccgtgtgactggtgggatgaaggtaaaggcagaccgagatgaatcctcaccatatgctg

15

208646_at HG-U133A

208650_s_at HG-U133A

208651_x_at HG-U133A

208657_s_at HG-U133A

208664_s_at HG-U133A -

208674_x_at HG-U133A

208683 at HG-U133A

15

208689 s at HG-U133A

acctacactctctacttaatcattggagatgccactttgaagaacccaatcctctggaatgtggctgatgtggtcatcaagttccctgaggaagaagctccctcgactgtc ttgtcccagaaccttttcactccaaaacaggaaattcagcacctgttccgcgagcctgagaagaggcccccccaccgtggtgtccaatacattcactgccctgatcctct cgccgttgcttctgctcttcgctcttgggatccggattggtgccaatgtctccaacttcac

20

208697_s_at HG-U133A

tgttcgaaaacgtcggcaggttctaaaagatctagttaaagttattcaacaggagtcttacacatataaagacccaattacagaatttgttgaatgtttatatgttaactttga ctttgatggggctcagaaaaagctgagggaatgtgaatcagtgcttgtgaatgacttcttcttggtggcttgtcttgaggatttcattgaaaatgcccgtctcttcatatttgag actttctgtcgcatccaccagtgtatcagcattaacatgttggcagataaattgaacatgactccagaagaagctgaaaggtggattgtaaatttgattagaaatgcaag actggatgccaagattgattctaaattaggtcatgtggttatgggtaacaatgcagtctcaccctatcagcaagtgattgaaaagaccaaaagcctttcctttagaagcc agatgttggccatgaatattgagaagaaacttaatcagaatagcaggtcagaggctcctaactgggcaactcaagattctggcttctact

208702_x_at HG-U133A

gtagcagtgctctcattggcctgctgntcatcgcagtggccattgccacggtcatcgtcatcagcctggtgatgctgaggaagaggcagtatggcaccatcagccacg
ggatcgtggaggttgatccaatgctcaccccagaagagggtcacctgaacaagatgcagaaccatggctatgagaaccccacctacaaatacctggagcagatg
cagatttaggtggcagggagcgcggcagccctggcggagggatgcaggtgggccggaagatcccacgattccgatcgactgccaagcagccgctgccag
gggctgcgtctgacatcctggactctggactgtaggactatataaagtactactgtagaactgcaatttccattcttttaaatgggtgaaaaaatggtaatataacaatata
tgatataaaccttaaatgaaaaaaatgatctattgcagatatttgatgtagtttcttttttaaattaatcagaaaccccacttccattgtattgtctgacacatgctccaat

35 208703 s at HG-U133A

40 ccagatgtgc

208710 s at HG-U133A

ccatcgccacagaagcggtaccaggacacccgggcgtggagcacattcccgtggtgcagattgacctctccgtcccttgaaggttccagggctgcctatgtcagatcagtatgtgaagctggaggaggaggaggaggaagaaggaggaagaaggaggaagaaggaggaagaagggcaag

cgccgccacagctcgctgcccacggagagcgacgaggacatcgccctgcccagcaggtggacatcgtcacagaggagatgcctgagaatgctctgcccagcgacgggatgacacagcgagaaact

208741_at HG-U133A

10 208754_s_at HG-U133A

15 ccatttttccagttccaaaatgattccattctagaaatttgaagtatgtaacctgaaatccttaataa

208819_at HG-U133A

208852_s_at HG-U133A

gcaggtggcttgttaaggaacgctagcagggcatggcacgtgagctccggaatagatgtcttcatcacttcttccactgtgtgttgacactgtttccttactatttcctcag
atccccagctttctcctctgctatgcattttcttcacagtgcagcttgcagtccgttgctgaaaatgattataagccctgcataatgttaagctttattgtgattacgtgtatgtttct
tctttcttttaagcagacccatacctttccagggtcaaagtacagaatagaatacattgatacaaagtacagaaaaatactttgattttatccatttcttttactctgtgtaaag
acttnagaagtctaattcacaggcaaaccaatacagaattgactgcagttgaacagactagaagtatttgtgggaggagtgacatgaagcatgagttatctgattttttt
gtagctgctatatattttaagccttcatttgcaattcatgta

30 208858_s_at HG-U133A

ttctgtatctgtgcctggccagtggcagcactagcagtggtattagcttatgccaaatacagctttggaaggatcttttttctttaactagatggtcaccttcttccctaccaca catgggtgggaaggtggacaggctaacctctccagctgtgagcctcttagactactgcatgtagcaaatgttcagcagctcaggcccccatgtccagttctgtccccac tgtcctcaaccctgtcctgaaaattctactgctttgatggctggggccagtctcttgtcactttggaaactgaggacgcgtggattctactcaagcctccaagtagtggcat atcagtcttggagctcctagctggtgatacggagagggctttggaggacttgggagcagcagggccaatttttttgcccaagtgcctaggctgctaactcactgactaga

35 acttaatctggtactttacagttttgcaccaactctgcc

208864_s_at HG-U133A

caga to gauge agact gottlt cagga agcctt ggacgct gcaggt gata aactt gtag tagt to technique to the context of th

40 agttttttaagaagggacaaaaggtgggtgaattttctggagccaataaggaaaagcttgaagccaccattaatgaa

208890_s_at HG-U133A

5 208894_at HG-U133A

cgatcaccaatgtacctccagaggtaactgtgctcacgaacagccctgtggaactgagaggcccaacgtcctcatctgtttcatagacaagttcacccca

208908_s_at HG-U133A

atcccacctgaatacagacatctcctggatgataatggacaggacaaaccagtgaagccacctacaaagaaatcagaggattcaaagaaacctgcagatgacca

10 agaccccattgatgctctctcaggagatctggacagctgtccctccactacagaaacctcacagaacacagcaaaggataagtgcaagaaggctgcttccagctcc

aaagcacctaagaatggaggtaaagcgaaggattcagcaaagacaacagaggaaacttccaagccaaaagatgactaaagaaatacaagttaaggtatctggt

atctgcatgtaaaatcttcagctggtggatggtgacttttgaagaacaaaaggctttggcaacagaaaacaattgttctgggtgatttctagaatggtttttgttgagtctctg

aa

15 208913 at HG-U133A

20

208914_at HG-U133A

208918_s_at HG-U133A

gaaatgggctgggagtgcttctgtcctgctgacaccccgcggtgggtccctggagcgcgcctccagctgccgcaatttccatgccaggatattttccgcaaatcagt 30 cggttgaaattcagaggagtcagaatgactcgacctgtccttcaatgttgataata

209003_at HG-U133A

tttattteectteeacagtgtggtttetteetetgeggtaaaggaettggtetgttetaeeeeetgeteeagettgeeetgetegteetgteetgteettgteettggetattet tgeagggagetggaaaactteetgaggatttetggeeteeeeetgggttttagttteagggeacaca

35

209018_s_at HG-U133A

209019_s_at HG-U133A

209023_s_at HG-U133A

209055_s_at HG-U133A

15 ggtggacttaataccccattgcatgagagtgacttctcaggtgtaactccacagcgacaagttgtacagactccaaaccagttctctctactccattcaggactccttct aatggagctgaagggctgactccccggagtggaacaactcccaaaccagttattaactctactccgggtagaactcctctttcgagacaagttaaacattaatcccga ggatggaatggcagactatagtgatccctcttacgtgaagcagatggaaagagaacatctccgtttagggttgttgggccttcctgcccctaagaatgat tttgaaattgttctaccagaaaatgccgagaaggagctggaagaacgtgaaatgatacttacattgaagatgctgctgatgtggatgctcgaaagcaggccata cgagatgcagagggtgtaaaggaaatgaaacgaatgcataaagctgtccagaaagatctgccaagaccatcagaagtaaatgaaactattctaagacccttaaat
20 gtagaaccgcctttaacagatttacaga

209060_x_at HG-U133A

209061_at HG-U133A

209062 x at HG-U133A

35

209075_s_at HG-U133A ...

209085 x at HG-U133A

209101_at HG-U133A

20 209135_at HG-U133A

25

209160_at HG-U133A

209167_at HG-U133A

35 tgtttcctcatagctagttctcaagctgcatgtaagattttaacgggaagaaaataggcctggacctgaaggtctcaaatatgttgagaagaaagtatgaactataag gaacttgagatgtagatttattttgcaggaaatacgaggaaaataggaaagaagtgtttgccgcatcaagtgtaaagaatgatactgaggattttacattttatgaaatg aaataatggcatttacaaaatgaaaaatgtagtttcacaactaagttttgttaacagagactgcatgctttgcttatagttcttaattttggttttgacatcaatttttttccat gttaaatatgtagtttaattatttactcaaaataaacattgttcatgcttttaggcctttgggggaattgattttatcacaaggtagaaaatggtctttgcacacactacacttatt tcaaatatacaatgtgctcccgaactttcgcattagtctt

40

209168_at HG-U133A

 $agccatttt caaaagaaactt gccttttacattattgtgttccagaacattaagtgactgtaggtactgggtattagtgatggtaaactttgtgttgccttttatgaaatgatccat\\ataactgttgggtgcatcagtgcttttcaaaggggctgcttactatgggttaactatgtatattcattgttaagagttaacttgtggtttggctgtttcctggattttat$

209169_at HG-U133A

5 aatgcctaaaaatgcctatttgggatttttttttttttnaaattaagagaagctctcttctgtgtagaacagttgttccaaaatagcttagtgttttgttttcctgttgcatgacagatt taactattctttccagcagtggaggtgctgtcagagtccagtgttctagaagagcagtgtctaaagcctaattttncttttctaattctggtagctattaccaggaatttttga aagttttgtttaagtagtctaatattttttatgtaaagagcattaaattttgctatgtataaatttttgtaacctaacagtgaatcaatattttctatcagtnccaagggcttcctgta gttctattcaa

10 209170 s at HG-U133A

gaaatatcactgacactccagactaaagcagagtctaggtttctgcaattttgttacagtaatttgtaaatagctttagtaaactcaccttgcatggtagattaataagatga cttactgtacatgaattacacaataatgagatctggtggctatttccacattttgaaaaggattcagttatttactgacagtggtgagcatccttttaaataatgttctgatac ttaaacattagagagcagtatctttaaatgaattattaacactttggaatacttacattttctgttatttttgattgcctgataaccagtttcaatgatgaaaatgaaaacaagtg ctgaagatgaaatggaagagaaccgttttaatctggattttgttttgtcacacctggaaaalactttgcaaatatgttctaaattgaaaacaatttttttatgatcacatggttc

15 actaccaaatgaccctcaaataagccagatg

209178_at HG-U133A

209186_at HG-U133A

30

209188_x_at HG-U133A

209190_s_at HG-U133A

209197_at HG-U133A

209236_at HG-U133A

209253_at HG-U133A

209259 s at HG-U133A

20

209267_s_at HG-U133A

aatgcaaaacaacagctggactgctgtacatcaaggacagattaactggaaaacatatgttccttatgtgtgattgagagccattcagaaaagacttcctttgtgttcag
cctatacttttccatatggtataccttgaaaaaaattagcacaccatggttatttttctaccttttataaaagacagagcctgtttactcatttagaagatagagaaaattggtc
taaaattgaacatcctagattcacactcccaagtcacttaaggtgatttgatggtgaggaaaatgattgacaaagcccaacaatgatctcaggaattacattttccaaca
gaccaaaaaaatgttttcatgtagcagcaatgcag

209306_s_at HG-U133A --

209307_at HG-U133A

40

gggatatgatcatttacaggaattatatatgaaaaaagtttttgaaatgtatttttgtgatgtgctatgttgaggggaaaccaaatatttatgattttaaaacattcgtatgaaa acattgtacaatgtaatatgctcaactttctcaatttttt

209312_x_at HG-U133A -

5 ctgtgtatccttcaaagacccagcccctgcagcaccataacctcctggtctgttctgtgagtggttctatccaggcagcattgaagtcaggtggttccggaatggccagg aagagaagactggggtggtgtccacaggcctgatccacaatggagactggaccttccagaccctggtgatgctggaaacagttcctcggagtggagagggtttacac ctgccaagtggagcacccaagcgtgacaagccctctcacagtggaatggagagcacggtctgaatctgcacagagcaagatgctgagtggagtggaggggctttgt gctgggcctgctcttccttggggccgggctgttcatctacttcaggaatcagaaaggacactctggacttcagcca

10 209321_s_at HG-U133A

209344_at HG-U133A

209354 at HG-U133A

- 25 tggtgtttagtggataccacatcggaagtgattttct

209365_s_at HG-U133A

gagtatgctgtgaagacccaccaccttgtgttgccgccacctcccagccctactcgggatgagtgctttgcccgtcgggctcttaccccaactatgaccgggac atcttgaccattgaccatcagtgagtcacccccaacctcatgggccacctctgtggaaaccaaagagttctcaccaagcataaacatattcctgggctgatccacaac atgactgccgctgctgtgacctgccatttccagaacaggcctgctgtgcagaggagaaattaaccttcatcaatgatctgtgtggtccccgacgtaacatctggc gagaccctgccctctgctgttacctgagtcctggggatgaacaggtcaactgcttcaacatcaattatctgaggaacgtggctctagtgtctggagacactgagaacgccaagggccagggggagaacagggccaactggggaacaatatcagctccacctctga

209369_at HG-U133A

35 gaagacttactgttggccatagttaattgtgtgaggaacacgccggcctttttagccgaaagactgcatcgagccttgaagggtattggaactgatgagtttactctgaac cgaataatggtgtccagatcagaaattgaccttttggacattcgaacagagttcaagaagcattatggctattccctatattcagcaattaaatcggatacttctggagact atgaaatcacactcttaaaaatctgtggtggagatgactgaaccaagaagataatctccaaaggtccacgatgggcttttccaacagctccaccttacttcttctcatact atttaagagaacaagcaaatataaacagcaacttgtgttcctaacagg

40 209374_s_at HG-U133A

caccatcacgtgcctggtgacgggcttctctcccgcggacgtcttcgtgcagtggatgcagaggggggagcccttgtccccggagaagtatgtgaccagcgccca atgcctgagccccaggcccaggccggtacttcgcccacagcatcctgaccgtgtccgaagaggaatggaacacgggggagacctacacctgcgtggtggccca tgaggccctgcccaacagggtcaccgagaggaccgtggacaagtccacc

209380 s at HG-U133A

209399_at HG-U133A

209412_at HG-U133A

gtgaagccagatatgcaatgtgtatctaaaaagcaaggaatttgcagccgttttacaaatatctgtggaacatgtaaatactgtcaaatggaaaataaaataaagttata

attttttgtgaatttcatgggatgtcctatgattgggaaaaattataactcttctgattctaatgtggaaattgttgtatttaatctgaaaatgactttacctacaacagttccattgt

cagcacagcctaggagggtcagattcctgtattaattactcttagtggagatgccagatatcccatacagaattagcagagaaaatacacacaggcttctattcaaattt

tctttagtgcttaaaattaagttttaaaatgaaatcagacactgcaggtttgtataaaatgaaaagctatactactttttataaagggcaaactgggctgatgtaa

209428_s_at HG-U133A

209490 s at HG-U133A

25

209499 x at HG-U133A

40 209500_x_at HG-U133A

catggagctccgaattcttgcgtgtgtgtagatgaggggcgggggacgggcgcaggcattgttcagacctggtcggggcccactggaagcatccagaacagcaccacactctagcagccgctcgagggaagcacccgggttggccgaagtccacgaagccgcctctgctagggaaaacccctggttctccatgccacacctctctccaggtgccctctgcctcttcacccacaagaagccttatcctacgtccttctccatctatcggaccccagtttccatcactatctccagagatgtagctattatccaccat

209522_s_at HG-U133A

5 gaggetgageaggaegttaggeeegggeeettggeaegteeteeaeeggtgeeteetetggggaagggaaceageeeteeaggeaggagaetggeaagaget etttgteteaeeageteageeeggeeaeteeetgeeaaeteeatgaeeaggeeaeeatetgtaeeetgetteeeaaaeteeaggaeetggagaeaggattgtetgg ggeegaggggeeagggtgtgaggttteaeeteegtgeggetgtgeteetgtggataaeattgetagegageegeetetggtteeaeteagettggtteetgeeeeegee etgetgtatgatattaatgtggaaggteateaat

10 209523_at HG-U133A

gtggacaatttacacacccaacacatactgtttccaaaattatttctatatgacacaaagtatgatacctttaaaaaggtgagcttatatattgtttattaacctggaaatag acaatttggctctcataccataagcatttaaaaacatatgaaatattttgatttctttatatggtggtgtgtttttatttctgaattttccatgtgctttaatatttgttaagaatattttt atatctgttcaatttttatcattccccttatcattagaaagtttgacaaaaatacttgaatcttggacctctaaatatacttt

15 209558_s_at HG-U133A.

20

209561_at HG-U133A

acatcagtgtctggcccaggtgagcacctccgaaatgccctgtggcatactggccacacccctgatcaggtacgactcctgtggacagacccacgaaatgtgggct
ggcgggacaagacctcctategctggcagcttctgcaccggcctcaagttggctacattcgggtgaagctctatgagggaccccagcttgtggcggattctggggtga
tcattgacacatccatgcgagggggggcgtcttggtgttattctgcttctcccaagaaaacataatttggtccaatctccagtatcgatgcaatgacacagtgcctgaggact
ttgagccattccggaggcagctgctccagggaagggtgtgaggaggaggccaccagattcagaatttagaacttttagaccctttggccttggggtccatcctggaga
ccctgaggtctaagctacagcccctcagccaaccacagacccttctctggctcccaaaaggagttcagtcccagaggggtggtcaccccacccttcaggggatgag
a

209604 s at HG-U133A

35 209616_s_at HG-U133A

40 gagaagccacccagacagaacacatagagc

209619_at HG-U133A

tctgggctgggtgtgaccaagcaggatctgggcccagtccccatgtgagagcagcagagggggtcttcaacatcctgccagccccacacagctacagctttcttgctccttcagccccagccccaccacctgtacctcatcccatgagacctggtgcttggctctttcgtcacccttggacaagacaaaccaagtcggaac

agcagataacaatgcagcaaggccctgctgcccaatctccatctgtcaacaggggcgtgaggtcccaggaagtggccaaaagctagacagatccccgttcctgac atcacagcagcctccaacacaaggctccaagacctaggctcatggacgagatgggaaggcacaggggagaagggataaccctacacccagaccccaggctgg acatgctgactgtcctctcccctccagcctttggccttggcttttctagcctatttacctgcaggctgagccactctcttccctttccctttccccagcatcactccccaaggaagagcc aatgttttccacccat

5

209628_at HG-U133A

209670_at HG-U133A

caactggatcctacccgaatttatgattaagattgctgaagagctgccaaacactgctgccaccccctctgttcccttattgctgcttgtcactgcctgacattcacggcag
aggcaaggctgctgcagcctcccctggctgtgcacattccctcctgctccccagagactgcctccgccatcccacagatgatggatcttcagtgggttccttgggctcta
ggtcctggagaaatgttgtgaggggtttattttttttaatagtgttcataaagaaatacatagtattcttcttctcaagacgtggggggaaattatctcattatcgaggccctgct
atgctgtgtgtctgggcgtgttgatgtcctgc

209679_s_at HG-U133A

25 209682_at HG-U133A

30 tcactatt

209685_s_at HG-U133A

209686_at HG-U133A

209714_s_at HG-U133A

tttctcggtttatgtgctcttccaggttgtaaatttaaagatgttagaagaaatgtccaaaaagatacagaagaactaaagagctgtggtatacaagacatatttgttttcta caccagaggggaactgtcaaaatatagagtccaaaacttctggatctctaccagcaatgtggaattatcacccatcatcaaccaatcgcagatggagggactcctg acatagccagctgctgtgaaataatggaagagcttacaacctgccttaaaaattaccgaaaaaccttaatacactgctatggaggagatcttgtcttgtagct gcttgtctcctactatacctgtctgacacaatatcaccagagcaagccatagacagcctgcgagacctaagaggaatccgggggaatacagaccatcaagcaataca attatcttcatgagtttcgggacaaattagctgcacatctatcatcaaga

209732_at HG-U133A

209735_at-HG-U133A

20 209754_s_at HG-U133A

25

209761_s_at HG-U133A

ttcagtcaaattaacctgcgtgaatatcccaatctggtgacgatttacagaagcttcaaacgtgttggtgcttcctatgaacggcagagcagagacaccaatcctact tgaagccccaactggcctagcagaaggaagctccctccataccccactngcgctgnccccaccacaaaccccctcaaccaagctgttcaccctgtgcgccaaga gtcagtga

30

209765_at HG-U133A

gagacttgctgattttctggttggagtgtttttttgtattgccatagtcccttcccctgaagcaatagcccttcccactcctgcaatacgcctttccaatctttattggaagtc
tctccctgcctacttcctaatttattcttatttgacagaggtatggaagacttgcaatttgaaaactggggaccagttccaaagtcagtaattgtgtaaccacgtgtataac
agctctgctggacacccaagaaagccatgggaacgccaactggaaaggtcccttccccaggggagcctgcgaaggagggttctgtagaatccaagcccacat
ttccaaagtcacccccaacgcgtcctctcacaccgtccactgtgcgtttgtatgtgtctgggatccagggcaatgtgaattttctttttatttgggagattgttcacggaaaac
agatcttcttctctttgtccacctattaattgtt

209771_x_at HG-U133A

209772_s_at HG-U133A

. . . .

cgcgcaccgacggaggggacatgggcagagcaatggtggccaggctcgggctggggctgctgctgctgctgctgctgctcctacccacgcagatttattccagtgaaa caacaactggaacttcaagtaaactcctccagagtacttccaactctgggttggccccaaatccaactaatgccaccaccaaaggtggctggtggtgccctgcagtca acagccagtctcttcgtggtctcactctctctctctgcatctctaactcttaagagactcaggccaagaaacgtcttctaaatttccccatcttctaaacccaatccaaatggcgt ctggaagtccaatgtggcaa

5

209780 at HG-U133A

209806_at HG-U133A

ttcaaagagaattgtggcagatgttgtgtgtgaactgttgtttctttgccacatgtgtt

taaacttgccaaggagggactttctctggaatttcctgatatgaccaagaaagcttcttatcaaaagaagcacaattgccttcggttacctcattatctactgcagaaaag

15 aagacgagaatgcaaccatacctagatggacttttccacaagctaaagctggcctcttgatctcattcagattccaaaggaatcatttacaagttaatttctgtctccttg

gtccattccttctctctaataatcatttactgttcctcaaagaattgtctacattacccatctcctcttttgcctctgagaaagagtatataagcttctgtacccactggggggtt

ggggtaatattctgtggtcctcagccctgtaccttaataaat

209815 at HG-U133A

25 209822_s_at HG-U133A

30 209825_s_at HG-U133A

35

209827_s_at HG-U133A

209831_x_at HG-U133A

209876_at HG-U133A

ctccctagcaccgaagatgtcatcaggaagactgaacagatcaccaaaaacatacaggagctcttaagagcagcccaagaaaataaacatgacagttatattccc
tgctcagagaggatacacgtagctgttacagaaatggcagcattattccccaaaaaacccaagtctgatatggtgaggacttcccttcgtttactgacgtccagtgccta
10 ccgactgcagtcagagtgcaagaagaccctcccaggggaccccggctcacccacagacgttcagctggtcacgcagggcagggtcatccagtgtgcgtacgacatcg
ccaaggctgccaagcagctggttaccatcaccacaaagagaacaacaactgacaagggcagggcaccgcctcctctgttttctaggctttataaagtccaatttca
aattcagacgcagaactcttcagatttc

209891 at HG-U133A

- 1.5 ggaagtactgactgcaaatatccaggatcttaaggaagaatattctaggaagaaggaaactatttctactgctaataaagcgaatgcagagggttgaaaaggctg cagaaatctgcagacttgtataaagatcgacttggactagaaattcgaaaaatttatggtgagaaattgcagtttattttcactaatattgaccctaagaatcctgagagc ccatttatgttttccttacatctcaatgaagcaagggactatgaagtgcagatagtgcccctcatcttgagggcctagcagaatttcaagagaatgtaaggaagaccaa caatttttcagcttttcttgccaatgttcggaaagcttttactgccacggtttataat
- 20 209905_at HG-U133A actatgaaaccgccattgggctactgtagatttgtatccttgatgaatctggggtttccatcagactgaacttacactgtatattttgcaatagttacctcaaggcctactgac caaattgttgttgtgtgagatgatatttaa

209939 x at HG-U133A

25 cctcaccttgtttcggactatagagtgctgatggcagagatttggtgaggattttggataaatctgatgtgtcctcattaattttcctcatgaaggattacatgggccgaggca agataagcaaggagaagatttcttgggaccttgtggttgagttggagaaactaaatctggttgccccagatcaactggatttattagaaaaatgcctaaagaacatcca cagaatagacctgaagacaaaatccagaagtacaagcagtctgttcaaggagcagggacaagttacaggaatgttctcaaagaagtctca aggatccttcaaataacttcaggatgataacaccctatgcccattgtcctgatctgaaaattcttggaaattgttccatgtgattaacatggaactgcctctacttaatcattct gaatgattaaatgtgttcaatgtgttataatgtgtttagccctttcttgttgctgtatgtttagatgctttccaatctttt

209961 s at HG-U133A

30

209975_at HG-U133A

agitcaagtacagtgactatttcaagccattttccacaggaaaacgagtgtgtgctggagaaaggcctggctcgcatggagttgttcttttgttgtgtgccattttgcagcattt taatttgaagcctctcgttgacccaaaggatatcgacctcagccctatacatattgggtttggctgtatcccaccacgttacaaactctgtgtcattccccgctcatgagtgt 40 gtggaggacaccctgaac

209992_at HG-U133A

agtgcattagtcattcgcttttccttacagacaaatcagataactcttccccagtgattgtcaaatgtatgaatgtatctctgtaaatgtggttttgacatgtcactgttactgaa ggagagtatggaatccccacaggatattatatcttgcaaggaaagtctattttttaaagaatagtatgtttttagctttacttttcttttcttttcctttcactcaaatgctcacttgct

gggcaaaagggtgagtagcaagaaaagtaatgatatgtagcttttctcaaatggttcttttatactgtggatgatacaggactctgttacctaagatgtgataagctgggc tgcaggcggttcagcatccagcaactaggagctgcttttctacgtacaaagctgccttcaggaaggctccttaccctgtagcagatgattttcatctggctgcctaccgca tgctgtactataatgatttagttgtgatatggatttctctctgcatcgaa

5 209994_s_at HG-U133A

gaaaaggttgtccaagaagccctggacaaagccagagaaggccgcacctgcattgtgattgctcaccgcctgtccaccatccagaatgcagacttaatagtggtgtt tcagaatggcagagtcaaggagcatggcacgcatcagcagctgctggcacagaaaggcatctattttcaatggtcagtgtccaggct

210004 at HG-U133A

15

210024_s_at HG-U133A

210036_s_at HG-U133A

30 210038_at HG-U133A

35

210045_at HG-U133A

40

210052_s_at HG-U133A

WO 03/039443 PCT/EP02/12303 - -

cagttttgttgagaattgtttcttacattactaaggctaataatgagatgtaactcatgaatgtctcgattagactccatgtagttacttcctttaaaccatcagccggccttttat atgggtcttcactctgactagaatttagtctctgtgtcagcacagtgtaatctctattgctattgcccc

210053_at HG-U133A

10 210095_s_at HG-U133A

15 agaggggtctcaagacattctgcctacctattagc

210116_at HG-U133A

210117 at HG-U133A

30

210128_s at HG-U133A

35

210140_at HG-U133A

210145_at HG-U133A

210151_s_at HG-U133A

ttaattccaagggcataccccgctactgctctgtgactacccaggcagatgggagggttgtgcttgtggggggtgcccccagtggggtaaaaagcggggtccccca ggcagcaaagactgggggacagcactgaaagggtgtgatgactacttgtttatagagttcttgaaaaggtgtcttcactgggacccctctgcccgcttgaccccagctc 10 aagcattaagacacccttggattagcaagtctgtccccagacctctcaccaccatagacaaggtgtcagggaaaccgggtagttaatcctgcaagtgctttccagggat tgggttctaagctgcctccagttgttggaatagccaataagcttaaagctaacttaatgtcagaaaccaatggtagtatacccctatgcagtgtattgccaaaactgatta gctagtggacagagatatgcccagagatgcatatgtgtatattttatgatcttacaaacctgcaaatggaaaaaatgcaagcccattggtggatgtttttg

210192 at HG-U133A

20 210244_at HG-U133A

210251_s_at HG-U133A

210254_at HG-U133A

40 210262_at HG-U133A

ctctgacataaatttagtgctttataacgaactgaatcaggttgaggattttgaaaactgtataaccataggatttaggtcactaggactttggatcaaaatggtgcattacg tatttcctgaaacatgctaaagaagaagactgtaacatcattgccattcctactacctgagttttact

210268_at HG-U133A

210279_at HG-U133A

15

210298_x_at HG-U133A

- 210299_s_at HG-U133A .

acaagcgctttgttttccacc

30

210314_x_at HG-U133A

210334_x_at HG-U133A

210356_x_at HG-U133A

210358_x_at HG-U133A

15 210448_s_at HG-U133A

210487_at HG-U133A

210519 s at HG-U133A

35 210563_x_at HG-U133A

gagtgaggcgatttgacctgctcaaacgtatcttgaagatggacagaaaagctgtggagacccacctgctcaggaaccctcaccttgtttcggactatagagtgctga
tggcagagattggtgaggatttggtaaaatctgatgtgtcctcattaattttcctcatgaaggattacatgggccgaggcaagataagcaaggagaagagtttcttggac
cttgtggttgagttggagaaactaaatctggttgccccagatcaactggatttattagaaaaatgcctaaagaacatccacagaatagacctgaagacaaaaatcca
gaagtacaagcagtctgttcaaggagcaaggacaagttacaggaatgttctccaagcagcaatccaaaaagagtctcaaggatccttcaattaacttcaggatgata
40 acaccctatgcccattgtcctgaaaattctggaaaattgttccatgtgattaacatggaactgcctctacttaatcattct

210609_s at HG-U133A

ggtgctggagttaatcttattctagactgcataggcggatcctactgggagaagaacgtcaactgcctggctcttgatggtcgatgggttctctatggtctgatgggagga ggtgacatcaatgggcccctgttttcaaagctactttttaagcgaggaagtctgatcaccagtttgctgaggtctagggacaataagtacaagcaaatgctggtgaatgc

tttcacggagcaaattctgcctcacttctccacggagggccccaaacgtctgctgcggttctggacagaatctacccagtgaccgaaatccaggaggcccataagt acatggaggccaacaagaacataggcaagatcgtcctggaactgccccagtgaaggaggatggggcaggacaggacgcggccaccccaggcctttccagag caaacctggagaagattcacaatagacaggccaagaaacccggtgcttcctccagagccgtttaaagct

5 210613_s_at HG-U133A

10 210616_s_at HG-U133A

gcgtacagcaacctcttggtcaaacaggcatgccaccatcttttcaaagcccaatattgaaggtgccccaggggctcctattggaaataccttccagcatgtgcagtct
ttgccaacaaaaaaaattaccaagaaacctattccagatgagcacctcattctaaagaccacatttgaggatcttattcagcgctgcctttcttcagcaacagaccctca
aaccaagaggaagctagatgatgccagcaaacgtttggagtttctgtatgataaacttagggaacagacactttcaccaacaatcaccagtggtttacacaacattgc
aaggagcattgaaactcgaaactactcagaaggattgaccatgcatacccacatagttagcaccagcaacttcagtgagacctctgctttcatgccagttctcaaagtt

5 gttctcacccaggccaataagctgggtgtctaaaaggacagcttctcttccactcaatattgccatt

210658_s_at HG-U133A

210664 s at HG-U133A

gccagatttctgctttttggaagaagatcctggaatatgtcgaggttatattaccaggtattttataacaatcagacaaaacagtgtgaacgtttcaagtatggtggatgcc tgggcaatatgaacaattttgagacactggaagaatgcaagaacatttgtgaagatggtccgaatggtttccaggtggataattatggaacccagctcaatgctgtgaa 25 taactccctgactccgcaatcaaccaaggtt

210715_s_at HG-U133A

210749_x_at HG-U133A

cctctagccatccttggggaaggtggggagaaatataggatagacactggacatggcccattggagacacctgggcccactggacaacactgattcctgaca

35 ggtggctgcgcccccagcttctctctcctgtcacacactggacccactggctgagaatctgggggtgaggaggagaaagaggagagaaaatgtttccttgtgcc

tgctcctgtacttgtcctcagcttgggcttcttcctcctccatcacctgaaacactggacctgggggtagccccgccccagccctcagtcacccccacttcccacctgca

gtcttgtagctagaacttctctaagcctatacgtttctgtggagtaaatattgggattggggggaaagagggagcaacggcccatagccttggggttggacatctctagt

gtagctgccacattgatttttctataatcacttgggtttgtacatttttggggggagagacacagatttttacactaatatatggacctagcttgaggcaattttaatcccctgca

ctag

210755_at HG-U133A

40

aatattcatttaatattaggttgatatttatcacataaaaagtaaaggctactgttagctaattgtcacagagaaggatttgtttctgttgttagtgaatttgaaatccttgacttt atgtgctacagccagttccatctctgtttgtaaattcttactttccattccatatcatattctgttccctataacctct

210763_x at HG-U133A

10

210788 s at HG-U133A

gtacctctttccattggatactgtgctagcaagcatgctctccggggtttttttaatggccttcgaacagaacttgccacatacccaggtataatagtttctaacatttgccca
ggacctgtgcaatcaaatattgtggagaattccctagctggagaagtcacaaagactataggcaataatggagaccagtcccacaagatgacaaccagtcgttgtgt
gcggctgatgttaatcagcatggccaatgatttgaaagaagtttggatctcagaacaacctttcttgttagtaacatatttgtggcaatacatgccaacctgggcctggtgg

ataaccaacaagatggggaagaaaaggattgagaactttaagagtggtgtggatgcagactcttcttattttaaaatctttaagacaaacatgactgaaaagagca
cctgtacttttcaagccactggag

210789_x_at HG-U133A

25 210794_s_at HG-U133A

30 210807 s at HG-U133A

35 gtagttaaattttgagattatgcatagaaagaatccatgctataggtttatttccatacctgactctgggtgtgggtgaaa

210817_s at HG-U133A

210896_s_at HG-U133A

gaatggccctactattatcatgcaaaaatgcctttgttggcacctcagattaatcatataatagctatagtctcttcagcattttgtttaaattttagaaaacctgtataaattact ggtgcataacttaaagattattctgcctttggctaattgagtaattcccctccagcactagagaccgctcagtgctcttactagatgaactcagtaacgccttgagctgggtt

gattgaggatgtgtgaaaaatggtggtttattttgggctcagaaataattgctctgttgaaaataatcctttgtcagaaaagaaggtagctaccacatcattttgaaaggac catgagcaactataagcaaagccataagaagtggtttgatcgatatattaggggtagctcttgattttgttaaca

210916_s_at HG-U133A

10 210933_s_at HG-U133A

210934_at HG-U133A

15

35

atatctgactcacagccaattcatggatgacgtgaatccaaaaatcagaggcccacgtggatttagacatggaaatgcctcaccagcttccatgagccagtctctgtg
cggcagacttgaactgcacgggggctgataggaagcagggtgggcgctgggatgtgactgtgcccttgccagtgtttccagctccagctcgggttctgtgggttgtcta
agcctgggggtgctctgccgggtctgtgggcaccggctgccttttcagcctaatcaccagagaagccacagaaagagctggaccacttagaggggcagtctggcc
acagccacttggaagaacaggctgattttgtacagatgtgcattttctcctgacttttaaactgtaaacattatataataccctagaaaattttgaaaatagatataaacca
tcaataacactggcaacctaacacttttacctaagagctacccattttgatttatctgatgcgcagttttcattgctg

210948_s.at HG-U133A

30 210973_s_at HG-U133A

gacaggtaacagtgtctgctgactccagtgcatccatgaactctggggttcttctggttcggccatcacggctctcctccagtgggactcccatgctagcaggggtctctg
agtatgagcttcccgaagaccctcgctgggagctgcctcgggacagactggtcttaggcaaacccctggggaggggtgtttggagggggctgctggaagagggctgcttggacaaagggctgtggaccaaagtggctgtgaagatgttgaagtcggacgcaacagagaaagacttgtcagacctgatctcagaaat
ggagatgatgaagatgatcgggaagcataagaatatcatcaacctgctgggggcctgcacgcaggatggtcccttgtatgtcatcgtggagtatgcctccaagggc

210982_s_at HG-U133A

gaaggagacggtctggcggcttgaagaatttggacgatttgaaggctcaaggtgcattggccaacatagctgtggacaaagccaacttggaaatcatga caaagcgctccaactatactccgatcaccaatgacaagttcaccccaccagtggtcaatgtcacgtggcttcgaaatggaaaacctgtcaccacaggagtgtcaga gacagtcttcctgcccaagggaagaccaccttttccgcaagttcaccactatctccccttcctgccctcaactgaggacgtttacgactgcagggtggagcactggggcttgg atgagcctcttctcaagcactgggagtttgatgctccaagccctctcccagagactacagagaacgtggtgtggccctgggcctgactgtggggcatcattattgggaccatc

210997_at HG-U133A

210998 s at HG-U133A

5 tgcatgacctgcaatggggagagttatcgaggtctcatggatcatacaggaatcaggcaagatttgtcagcgctgggatcatcagacaccacaccggcacaaattctt gcctgaaagatatcccgacaagggctttgatgataattattgccgcaatcccgatggccagccgaggccatggtgctatactcttgaccctcacacccgctgggagta ctgtgcaat

211015 s at HG-U133A

15

211031 s at HG-U133A

211097_s_at HG-U133A

25 ccgtaacttcagcaaacaggccactgaggtcctaaatgagtatttctactcccacctgagtaacccatatcctagtgaggaggccaaggaggaggcttgccaagaagt gtggcatcaccgtgtctcaggtctccaactggtttggcaacaagaggattcgctataagaaaaacatcggaaagttccaagaggaggcaaacatctatgctgtca

211101_x_at HG-U133A

35 211105_s_at HG-U133A

40 cggcactgtaggagtcacgtgcagcctttctcaggggactgtcattgaaaaggaaacgtttgatgtctgtgtcagctgtctttgtagtt

211126_s_at HG-U133A

ctactgcaaatcctgctacggaaagaagtatgggccaaaaggctacggttatggccagggcgctggcacgcttaacatggaccgtggcgagaggctgggcatca aaccagagagtgttcagcctcacaaggcctacaacaaatccaaacacttctaaatttgctcagaaatatggaggtgctgagaagtgttccagatgtggggattctgtata

WO 03/039443

5 211138_s_at HG-U133A

10 ctgtgaccaaaattaagcatgaaaaaaatgtttccattgccatatttgattcac

211275_s_at HG-U133A .

ttagaattgcccagtgctgccagagtgagtgagtgtaattctcctttcaggtaaagataggctatctcaacactgctgagtgattcataaacatatcaaccaatagcatta acccattttatttcctgtccttagtgtctgaagatgctcaccagttttctgtgtacagtaaggcagcatgctaaaatgcttttgttcagttctggatatttgaaaatagcagtgtgtt 15 ctctgatggttacctgcagtggcacc

211297_s_at HG-U133A

gcagagttacttctaagggttccttttttgccaggagattcagaccttgatcagctaacaagaatatttgaaactttgggcacaccaactgaggaacagtggccggacat

20 gtgtagtcttccagattatgtgacatttaagagtttccctggaatacctttgcatcacatcttcagtgcagcaggagacgacttactagatctcatacaaggcttattcttattt
aatccatgtgctcgaattacggccacacaggcactgaaaatgaagtatttcagtaatcggccagggccaacacctggatgtcagctgccaagaccaaactgtcc

211341 at HG-U133A

211349_at HG-U133A

30 accacgcctggctaaggcaaagttttttctttgctttcccatcatctcaagtatttccaaaagaactgctcagataaagaaatgggacagtgtcagtaactatcagagg tttgtgcttgctaatgctccatagagagtttgtgaatttcccatgtggaagggaatatgtggtgttactggtgacaaactaacaagaccatcctgtccacatttgaatcagat tagattatgaaataaagatttcaggagaattgcttgaacctggtagacggggttgcagtga

211352_s_at HG-U133A

211404_s_at HG-U133A

40

cccactgcgggaggacttcagtctgagtagcagtgctctcattggcctgctggtcatcgcagtggccattgccacggtcatcgtcatcagcctggtgatgctgaggaag aggcagtatggcaccatcagccacgggatcgtggaggttgatccaatgctcaccccagaagagcgtcacctgaacaagatgcagaaccatggctatgagaaccc

211456_x_at HG-U133A

211474_s_at HG-U133A

15

211495 x at HG-U133A

211502_s_at HG-U133A

211540_s_at HG-U133A

35

211574_s_at HG-U133A

211584_s_at HG-U133A

5 211657_at HG-U133A

211665_s_at HG-U133A

15

211668_s_at HG-U133A

211709_s_at HG-U133A

211743_s_at HG-U133A

35

211748_x_at HG-U133A

211771_s_at HG-U133A

5

211787_s_at HG-U133A

211796_s_at HG-U133A

211800_s_at HG-U133A

20 accettggggagcatgacccetggtactgtcccaactgtaagaagcatcaacaggccacaaaaaagtttgacctatggtccttgcccaagatcctggtggtccacctc aaacgtttctcctacaacagatactggagggataagctcgacacagtcgtagaattcccaatcagagggctgaacatgtccgagtttgtctgtaacctgtcagcaagg ccttatgtgtacgacctcattgccgtgtccaatcattatggagccatgggggttggccactacactgcatatgcgaagaacaaactgaatggtaataggtattactttgat gatagcaacgtgtccctggcctctgaggatcagatagtgactaaagcagcttatgtgctattttaccaacgtcgagatgatgaattttataagacaccttcacttagcagtt ctggttcctctgatggagggacacgaccaagcagctctcagcagggctttggggatgatgaggcttgcagcatggacaccaacc

25

211819_s_at HG-U133A

211824_x_at HG-U133A

40 211852_s_at HG-U133A

accacaggcaagcactgcgagacctgcatatctggcttctacggtgatcccaccaatggagggaaatgtcagccatgcaagtgcaatgggcacgcgtctctgtgca acaccaacacgggcaagtgcttctgcaccaccaagggcgtcaagggggacgagtgcaagctatgtgaggtagaaaatcgataccaaggaaaccctctcagagg aacatgttattatactcttcttattgactatcagttcacctttagtctatcccaggaagatgatcgctattacacagctatcaattttgtggctactcctgacgaacaaaacagg

211883_x_at HG-U133A

10

211889_x_at HG-U133A

211918_x_at HG-U133A

25 211934_x_at HG-U133A

30 agggatgcgcattaaacttcttttgccccc

211950_at HG-U133A

211953_s_at HG-U133A

40 ttcccctaatattttccttgtgcaattcagacttaagcatcgagttttaccatcttccactttaagctaagttatgatacctattccacttcacattggtgttctttttaaggtttgcaa atttcagccaattttgtagctaagattgttctgatcagctcaaaaagatttggcttagtgttttcattgcaaattataattgctgtagagccacacac

211984_at HG-U133A ·

5 211990 at HG-U133A

10 211991_s_at HG-U133A

gcactgggaggcccaagagccaatccagatgcctgagacaacggagactgtgctctgtgccctgggcctggtgctgggcctagtnggcatcatcgtgggcaccgtc ctcatcataaagtctctgcgttctg

212012_at HG-U133A

20 212013_at HG-U133A

25 ccctggttgcgtccacgtcctgaacaagagccgcttccggatggctcttcccaagggaggaggaggagctcaagtgtcgggaactgtct

212020 s at HG-U133A

212022_s_at HG-U133A

40

212032_s_at HG-U133A

ccacgtctacgtgaaccagggggagatcctgaggaccgagcagtggcaaggaagctgtacatgcagctcatcccgcagcagctgctgaccaccctagtgccgc
tgttccggaactcgcgcctggtccagttccacttcaccaaggacctggagacactgaagagcctgtgccggatcatggacaatggcttcgccggctgcgtgcacttttc
ctacaaagcatcgtgtgagatccgcgtgcttatgctcctgtactcttcagagaagaaaatcttcattggcctcatcccccatgaccagggcaactttgtcacggcatcc

ggcgtgtcattgccaaccagcaggtcctgcagcggaacctggagcaggagcaacagcaacgagggattgagggggtagtggttaccccggggctgggcccct

212058 at HG-U133A

10

212074 at HG-U133A

212107_s_at HG-U133A

tagaggggctactggatgtgggaaaaccacacaggttccccagttcattctagatgactttatccagaatgaccgagcagcagagtgtaacatcgtagtaactcagc

ccagaagaatcagtgcggtttctgtggcagagcgagttgcatttgaaagaggagaagagcctggaaaaagctgtggctacagcgttcgatttgagtctatacttcctc

ntcctcatgccagtataatgttttgtactgtaggtgtctcctgagaaaattagaagcaggcattcgaggaatcagtcatgtaattgtagatgaaatacatgaaagagat

attaatactgacttccttttggtagtactgcgtgatgttctaggcttatcctgaagttcgcattgttcttatgtctgctactattgataccagcatgttttgtgaatatttcttcaattg

ccccatcattgaagtttatgggaggacttacccagttcaagaata

25 212133_at HG-U133A

30 taatactacagatgtactacgtatctgtttatatactgtacctacatctgtgcttt

212146_at HG-U133A

212150_at HG-U133A

212171_x_at HG-U133A

212185_x_at HG-U133A ...

cgccggctcctgcaaatgcaaatgcaaatgcacctcctgcaagaaaagctgctgctcctgctgccctgtgggctgtgccaagtgtgcccagggctgcatctgca
10 aaggggcgtcggacaagtgcagctgctgcgcctgatgctgggacagccccgctcccagatgtaaagaacgcgacttccacaaacctggattt

212187_x_at HG-U133A

ccatgtgcaagtctgtggtggccctgccacggatggtggcctcaacctgacctccaccttcctcaggaaaaaccagtgtgagacccgaaccatgctgctgcagccc
gcggggtccctcggctcctacagctaccggagtccccactggggcagcacctactccgtgtcagtggtggagaccgactacgaccagtacgcgctgctgtacagcc
agggcagcaagggccctggcgaggacttccgcatggccaccctctacagccgaacccaggactccagggctgagttaaaggagaaattcaccgccttctgcaa
ggcccagggcttcacagaggataccattgtcttcctgccccaaaccgataagtgcntgacggaacaannataagtgcatgacggaacaataggactccccaggg
ctgaagct

212188_at HG-U133A

20 actgtcttgtacataggcatcttattcactgcaccctgtcacacccagcacccccgccccgcacattatttgaaagactgggnaatttaatggttagggacagtaaatct acttctttttccagggacgactgtcccntctaaagttaaagtcaatacaagaaaactgtctatttttagcctaaagtaaaggctgtgaagaaaattcattttacattgggtag acagtaaaaaaaaagtaaaattaacttgacatgagcactttagatcccttcccctccatgggctttgggccacagaatgaacctttgaggcctgtaaagtggattgtaa tttcctataagctgtaatagtggaggtattgtgggttcatttgagtaagccctccaaagataccattcaaataacctgggagaatgtcataaattatcagataattaacact gcatgaatctgattcagaggcatgcntttacatatgttgccctaattaccatttgatgatcataaaatacaagtgaatgacattggacctttagtaa

25

212207_at HG-U133A

aaaagttgtgtgtgggaatgtgaaagcagagaaataacttgtaaatggataattttgttctctgtaccaccagttgaagggggggttgactttcgcaatgtataggataa
aaaatctgatatatcaaaccatttgtatctaatgtgtacagtgtaaaattgactttaaaaatattgcagtgctattttttcttaatcagaaaggaaaattctcaaggccttttga
agagcataagaagatgaagattgtaaacttgtataaaattatcttggtgagaagacaaattgtaaagtagatatttgtaatcttttaccactttggggttgcttttttcccgga

30 attcatcagaactttgaattttttttttaaatgggctgtttttaatgcaggggcttttcttccctag

212222_at HG-U133A

212229_s_at HG-U133A

212231_at HG-U133A

212232_at HG-U133A

212236_x_at HG-U133A

212250_at HG-U133A

25 212251_at HG-U133A

212259_s_at HG-U133A

cagcgttatctaactcctggagggtggactctgtcctggcttgtttggtgtcctcagatatctttcacacagtagagcaaaatcaccagccctgcactgatgtcactttatgt agaaaaaggccttagctggacctgngttgccgtctatgcaaatgcatgcaaatactccaggccctgggatgtgggcttgtgttttgtcactgtgaaggggagatggg 35 :agaggagcctgttttggggtttgggggtctggggaaggcaatctgattctgaagctaaagagctttcatcctcttgagtgtatgtccccatagtgggccccttgacccacatg ctgaccggtgccttgggatttgactagagttgctggctcgaggcccagcacgaggacttaccctggggttttgttaggtttggaagcagctgtcctaggggtgaagtc

212268_at HG-U133A

212271_at HG-U133A

5

212281_s_at HG-U133A

tacagccaggcataacatatccactgtgtgcatagagggtctcttcacgttgatgcttggcattccatcagctttctctaagtctttgctcaagttcaaccttaaaatgatgtta g

10 212285_s_at HG-U133A

15 tg

212287_at HG-U133A

212293 at HG-U133A

30 212309 at HG-U133A

212311_at HG-U133A

212313_at HG-U133A

212314_at HG-U133A

212345_s_at HG-U133A

15 gcacactgtaagctttcaagttctctgggcaggaattacagcacctgtccctgcaatggccctgctgtgtgatgctcatcgcttcccttcgtgctggagcagtccccag gtgtccatctcctatcttttgttccaatcttctgtgagttccagctagcaggctttacatctggggaaaggaaaaccaggggttttagctctgttctctgctccatcctttcgctc accagctgagtgagaacatgaactttttgcaccatgtacccatggcttacactacttagaaaatcaccttttcagataaaacagtttatgagttcatagagaacaccagc actctttgacaaaactgtgagtgaccctttttaaacaatgctgagcaggccctgagctataatcaacggtgagctttaatgtctatgctgacagttaggttttgctctcttttgt aacaggttacgtagaccagcagtgtttaaatctaaatacgttgtgagtctgttatctgtcctatcgcgttttttaa

20

212346_s_at HG-U133A

212349_at HG-U133A

212357_at HG-U133A

40 212365_at HG-U133A

gtacatctcggattttcctcttaacaacaataatctccttcttgctgaccaaaagtctggacaaatcaagtcagaggttccactggtggatgtgaccaaggtatcaatga gctcacaaaatgatggcttcttcgccgtccacctcaaagagggctcagaagcagctagtaaaggagactttctcttcagcagtgatcacctgattgaaatggncncca ancnnctatcgcacaactctcagccaaaccaaacagaagctcaatattgagatttccgatgagttcctggtacagttcagacaggacaaagtatgtgtgaagtttattc

agggaaaccagaaaaatgggagtgtcccaacatgtaaacgaaaaaacaaccgtctccttgaagttgctgtcccttaactggcgcctcctctctactttcatggacttgtt cctttgtaatagtgca

212382_at HG-U133A

10

212385_at HG-U133A

212386_at HG-U133A

212387_at HG-U133A

212397_at HG-U133A

35

212400_at HG-U133A

212417_at HG-U133A

5 212449_s_at HG-U133A

212463_at HG-U133A

20 212469_at HG-U133A

212479 s at HG-U133A

212480_at HG-U133A

40 212481_s_at HG-U133A

ggccaagcacattgcggaagaggctgaccgcaaatacgaggaggtagctcgtaagctggtcatcctggagggtgagctggagagggcagagggagcgtgcgga ggtgtctgaactaaaatgtggtgacctggaagaagaactcaagaatgttactaacaatctgaaatctctggaggctgcatctgaaaagtattctgaaaaggaggaca aatatgaagaagaaattaaacttctgtctgacaaactgaaagaggctgagacccgtgctgaatttgcagagagaacggttgcaaaactggaaaaqacaattgatg

212484_at HG-U133A

10

212509_s_at HG-U133A

212531_at HG-U133A

caagagctacaatgtcacctccgtcctgtttaggaaaaagaagtgtgactactggatcaggacttttgttccaggttgccagcccggcgagttcacgctgggcaacatt

aagagttaccctggattaacgagttacctcgtccgagtggtgagcaccaactacaaccagcatgctatggtgttcttcaagaaagtttctcaaaacagggagtacttca
agatcaccctctacgggagaaccaaggagctgacttcggaactaaaggagaacttcatccgcttctccaaatctctgggcctccctgaaaaccacatcgtcttccctg
tcccaatcgaccagtgtatcgacggctgagtgcacaggtgccgccagntgccgccaccagcccgaacaccattgaggga

212535_at HG-U133A

25 gtacagtttccaacagetgtccttcctcagtactctaatggccactccaccgcgagtggaagtcactgttgtgtgtacacaggtggtcccaatcaaaactccatcttttgag cccaattatgtccattttgttatagactaaatcaggggtttgttctacaagaacaatacatgttttaccctttcctttaactagaaggataactagtaatgcatcaacataatttc tgtattaaccatcatgcgcacaagaaatacatagtaaataaggaagctgaaaactcctggcattggatcttaagctagatgattagaatgtgaaaaagattttacaaat gtaaaacttctatttctctgtagaaactttcttcactttgctgtgcaagaagacactgctttgctatatttaaaatggctttttaaaaggagatttatgtatttggtaaatgtttgtagt caacagttcacacaagaagctgtacacggtttgatcatgtaaaaccgtttggcggcacaagctgga

30

212538_at HG-U133A

gtgaaccaggagatttagtgcttttatattcatttccttgcatttagaaaatatgaaagcttaaggaattatgtgagcttaaaactagtcaagcagtttagaaccaaaggc
ctatattaataaccgcaactatgctgaaaagtacaaagtagtacagtatattgttatgtacatatcattgttaatacagtcctggcattctgtacatatatgtattacatttctac
atttttaatactcacatgggcttatgcattaagtttaattgtgataaatttgtgctgttccagtatatgcaatacactttaatgttttattcttgtacataaaaatgtgcaatatggag
atgtatacagtctttactatattaggtttataaacagttttaagaatttcatccttttgccaaaatggtggagtatgtaattggtaaatcataaaatcctgtggtgaatggtggtgta
ctttaaagctgtcaccatgttatattttctt

212549_at HG-U133A

212569_at HG-U133A

212577_at HG-U133A

15 212579_at HG-U133A

20

212586_at HG-U133A

212587_s_at HG-U133A

35 212589_at HG-U133A

40

212590_at HG-U133A

agaatcccttcagttttagctaccaacggccaggaaaagccctcatcttctctttctctcctcagtttacatcttgttggtacctttctagccttagacaaatgatcaccatgtta gccttagacnaagaagctggctagtcctttctgtgaagctaatacaatggtcatttccagacaaatttaaaggaaacactaaggctgcttcaaagattatctgattccttta aaatatatgtctatatacacagacatgctctttttttaagtgcttacattttaatagagatgaatcagttttggaatctaagctgtttgccaagctgaagctacaggttgtgaaat

212592_at HG-U133A

10 212601_at HG-U133A

tccatcctcccgtcaggaagatcagctgtaaataaacgctgggctccccagagcacctgtccgcccnactgcccttgctgttctgggatcttcgctgcagttcacggga aacaagcctgagtccgctcgcacccgcggctgctctcccggcccggccgcctctgtctccggccaccgggtggcgctgccgagagccagagccgcgcgctcc cggcgctttccaggagccccaggcccggaggaggcgaagcccgcagagcaaaggtggaaacacgtgcctacgctgtaaagaaatcctgttccagagcatacct gttgtacaaacagacactgttcctaacgagaggagtgacgtattttcatcaccgtttttaatttgttttcttacgggtttacgattttgaatttttcttatttggttgaaagaattttgat 15 tctatcagcctgagtgagttcagcctg

212614_at HG-U133A

ttcacttategteccacaaagteacatttggtggtggteagecaagtegeatetggtetagttttactettgteccaattttaaagagaaatgggaatgagtttgecetggtga gaeccataccattgcaatgattatettgageacttaaagtecagtgttggetgttagtgtattttgatattetgeetgteteeteatggttgaaatatgtetgaagaatageagea 20 taatetettggetgtttataettttttaaaettteetgtgttgtaaatattgtataettttggtgattecagetatgtaaeetetatgetetgtaaggtgattatttgtatatageaaeatg geecagtgatattatatagttteecaatggagaggttattgagtaaeetttgeattagtttaaaeaetaeeagaagaatgetgageeaaetataaaeaeteaattttgtatgt ttteeaaattgtaettattaetgettttgataeetgtattaegtgeeaatagttteeeaateaeaagaagaa

212629 s at HG-U133A

212658_at HG-U133A

30

acgccaggcccagttaatgctagtctttcatgtgaaatgtgaagctgccatgttgccttttctcttagtaggataactagtagctggtacataatcactgaggagctatttctt
aacatgcttttatagaccatgctaatgctagaccagtatttaagggctaatctcacacctccttagctgtaagagtctggcttagaacagacctctctgtgcaataacttgtg
gccactggaaatccctgggccggcatttgtattggggttgcaatgactcccaagggccaaaagagttaaaggcacgactgggatttcttctgagactgtggtgaaact
ccttccaaggctgagggggtcagtaggtgctctggagggactcggcaccacttgatattcaacagccacttgagccaaaatataaaattgtatttacagctgatggactc
aatttgagccttcaaacttgtagttatcctattatattgtaaactaatacattgtctagcattgatttagtttcgtgt

212660_at HG-U133A

212667_at HG-U133A

212686 at HG-U133A

212719_at HG-U133A ·

20 212733_at HG-U133A

tecetttagategtgegtetgltttagtgactetgacaegatgeegteeteaeetteeaaataeeeagttattatteaagaggggggaagtgggtagaggatgggatgtttt ggaageaetttgeaagttaceaetatetgaaaateeeetgetgttgeeggggagaagetttgaatgeaetgaagagaatteettetaaatgaaggeaggtgatagtgttett tetgtaagtaaagggaaagaaaaaaaeatagtttgettaeeaggtggagacaagatteaagaegagagagagagagagaaaatatttteeaettaaatgag getgtttttgaegttetetgeeaaggatttagagetttegttgaaetaaeataaaaggagtgegagtettagtagagatgtteegtgtgtgeegeeegtgetetgaaetgegt

25 tecacetgetgtggtgcttgtgcagectggcagttcattgtcatetttaa

212735_at HG-U133A

212750_at HG-U133A

40

212778_at HG-U133A

agtttactacagagacagacgcttaaaacacaaagagaaacagtcttaagtatgaatgtgctcacaacgtggaaactaacgggggaagctcctgccaggagccgaatgctctgctctgcttattaacccgaacgttcggcccggggaagccagaaggcagtctgagccatggatcgcggaaggcgtcctctggcctcaggagcc

212783 at HG-U133A

5 gatcacaaagccacttatgatactaaacggccaaatgaagagacaaaatctgtagataaaatccttgtaaggatcgtganaagcatgtattagaagcaaggaac aataaagagtcaagtggcaataaactactttatatacttaacccaccagagacacaggttgaaaaagagcaaattactgggcaaattgacaagagtactgtcaagc ctaaaccccagttaagtcattcctctagactttcctctgacttaactagagaaactgatgaagctgcttttgaaccagactataatgaaagtgacagtgaaagtaatgtttc tgtaaaagaagaggaatcttcaggaaacatttctaaggacctgaaagataaaatagtggagaaagcnaaagagagcctggacacagcagcagttgtccaggtg ggcataagcaggaatcagagccacagcagccccagcgtcagccccagcagaagccacagtccttctggaagccagacccgaagccacagtagcagtgc

10

212812_at HG-U133A.

agaatgcatatgtcccaatccacttctataggagtttaatcatattcacatgagtaaaatgatggaagaactctttaaggtaatcctttgggataaaggatcctgggaagtt
ctctcaggtaaagaaagcttacagcagatttgtaatatatgtctggagagctatttataagaaatttaagaggattgttttgttttctttattaaagatttaaagatttaatgcttttactttg
caaaaagaaaactacaaaaagttttatagatataactttgctaattttttaaacttttctgaaacgattagctgtagccaaattatgtggttacgttttgctacattagaatttgaa

15 aatgcaatatgtgtggtaaatctactgtttgaaatttataatggtctctgatatgattcgaattttggtaacttttgaaagttattttccccctttagtcatggatttctatttgtttttaa
tgttaatttttctagaaagcatctgaattgactaggcttttcctatataaaaaactcaaaacttgttaactctgtact

212813_at HG-U133A

ggatgcttagcatgcaagttccctccatcattgccaccttggtagagagggatggctccccaccctcagcgttggggattcacgctccagcctccttcttggttgtcatagt
gatagggtagccttattgccccctcttcttataccctaaaaccttctacactagtgccatgggaaccaggtctgaaaaaagtagagagaagtagagtctgggaagtaggctgctataactgagactagagctggaaaaggaatactcgtgtattttaagatatgaatgtgactcaagactcgaggccgatacgaggctgtattctgcctttggaatggatgtgctgtacacacagatgctacagacttgtactaacacaccgta

212827_at HG-U133A

30 212828_at HG-U133A

tggtaggattcccaggtcagcagcagggttgattaaataatcttgacaatgagcagctgccatcttggggggatttcattctgtggttttttaaatgtttcgtctttgatgctacc atccagggcttcttattgtgaccttgtagcctattttgttcctgctgttctctaacatggtgcagttcacgcagactggtttaggtacttcacaactcaccattgtctcttgaccc caagcctagtcccttttacatcaccatcttctcagacttcttgcctattcttaaaatatgttttggttaatgattgaattgagacatcagcttaagcaattcctgtaacggt

35 212838 at HG-U133A

10

212886_at HG-U133A

gactccgtctcaaaaaaaagaaaagaaaagaaagcattgttttaattgagagggcagggctggagaaggagcaagttgtggggagccaggcttccctcacg cagcctgtggtggatgtgggaaggagatcaacttctcctcactctgggacagacgatgtatggaaactaa

212895 s at HG-U133A

5 gggcagagtgagtcacggcccagactgggcaccttcacgtctcagcctcagggagccccacagccccaagctcgctgaggcaacgtgagaacaggctatggga aggctgcaaaggctgagaaatgcaaaggctcatatttataaatcccacccccagagtggggagggtcaggtgcagacctggactaaactgcaccaaggaaac acccagcagggtctcctgtgagccggggaccatgcagcccgaaacctccagtcactgcgccggcaggagtcaggagccagggactgtgcagcttggaacctc cagtcactgtgcccagcagggtgggctgtgcccagcaggagtcaggctaagaaacgccaggtctgcctgttcttgctgggcaatggctgatggctgatggctgccagtttctgct gatacacaggtaggatgggacccttcatgaatatctg

10

212914_at HG-U133A

15 caagcacatgcctttgctga

212953_x_at HG-U133A

212956 at HG-U133A

212960_at HG-U133A

35 212967_x_at HG-U133A

212970_at HG-U133A

tgctacttctttttaaatccactttatgatttcaagatggacacttgtaagatgactcgacacaaggccattgcctggaagccccagagctttcctctgtttgtatggcccgttcattgccaggcattgcaacacaaaannnctcaagatttcaccacaacatgacaagcattttcctaactgatattagcacaatttaactaataagccccttcgctctctagtt

212973_at HG-U133A

10 212975_at HG-U133A

ggttctggtgtggttgttggagccggaggnngcgtgtcagcacgtgctgagggcatggggcctgccccctgggcacccatccacaagctgggccacggagctcca gcttctcaggacaaagccccggggctggcgcatcctgagggtctctgggggtgtttgccaggctcctgggatgggccgctttcagaagccctgcagtgcctccagatg gaaaggcgggcccggcctccggttgggtctgcattttggagagtccacaccacggaccaggttttcccccaaggcttggctttgtgtagctactaacttcttggggcattc tgagagtgtgggcagagagaattatgtggcctcatcctcccccaaggctgtgcttgcagcccgggcaccttcccactttctagctctggagaggttggattttgcttttgta

15 aacacatgaatccttatgataaaagtctgtcagtcaaaaatacatttataaattatttaatgccagtcctcatgtaacctcaggtatcttcagcttgtgg

212985_at HG-U133A

212989_at HG-U133A

30 212998_x_at HG-U133A

213048 s at HG-U133A

35

213049_at HG-U133A

5 213073 at HG-U133A

10

213081_at HG-U133A

213101_s_at HG-U133A

ggaactaagagctagtatcttggattaactgatgcctgctagtgctttctgattactcgcattctgtttcttgctttaaaagaagagtaaagacaagagtgttggaccagta

20

213142_x_at HG-U133A

ctgctgccattttaatcttgctcattaaccttactcctttgagaattctttaacaatatttaaaattggtaacaaaaatagtttagccataattgtttagccatgtgagtttcaggtt
ggtacacgttcagacagaactgctgtatcacattccaattttgaatagccagtgagcaatcaagtgtagagaaatgataaatggcctaagaaggcatacagtggcat
aaacgatgctcttcctagtagcttaataggccacaagctagtttctgttgcactctgaaataaaatatgctttaaaaatgtagggaacagtgcttagaaaaagcaaaaact
aggtgtgtcattgaaataataggcataaaaattaaatgttacataagaacactatttggaaagagggtccttttaaaaactgaatttgtactaaatcagatttgccatgtcc
agtacagaataatttgtacttagtatttgcagcagggtttgtctttgtga

213147_at HG-U133A

35 213150_at HG-U133A

213159_at HG-U133A

gtgccactgatgcacagccaggcaacaccttaagtcctgccaacaattcacactccagaaaggcagaagtgatttacagagtccaaattgtggatcccagtcaaatt ctggaagggatcaacctgtctaaaaggaaagactacagtggcctgatgaaggaatccggttaaaagctgggagaaatagctggaaagactggagtccgcagg

agggcatggaaggccatgtgattcaccgatgggtgccttgcagcagagatccaggtaccagatcccacatcgacaaggcagtgcttctggtccagattgatgataa atatgtgactgtaattgaaactggggtactagaacttggggctgaagtgtgagccagtgtttattataaagacatttcttttccctctcaattccaaggcattggaaaaaga gaggaacaagcagaagatgcctgcaggtatcactttgatcc

5 213238 at HG-U133A

10

213249_at HG-U133A

213288_at HG-U133A

25 213295_at HG-U133A

30

213309 at HG-U133A

213313_at HG-U133A

gtgatatgctgacaggctgacacgcagatggttttgtcctnttttctgcgttcagtgttgaggcggctgcttacaagaggcactggttttgtatataaagacactcgggttgtt ttgtagctctttttcttattggctgtactaacgcttgctgaggttatctgtaataagggaggtaacaagtggcaaccccntccccaccaaccatcccctttgctgctttctgtgtc 40 tttcttgttcagttaccaaaatagctgtaagcctatctaatgctaggtgtgggacattgtgctaaggtagtttcagtgtgtgac

213353_at HG-U133A

gtatcggaacagtacaacatctaaagagtaaatttggaaaaggctactttttggaaattaaattgaaggactggatagaaaacctagaagtagaccgccttcaaaga gaaattcagtatattttcccaaatgcaagccgtcaggaaagtttttcttctattttggcttataaaattcctaaggaagatgttcagtccctttcacaatcttttttaagctggaa

5 213370_s_at HG-U133A

213447_at HG-U133A

213452_at HG-U133A

25 213453_x_at HG-U133A

30 acatggcctccaaggagtaagacccctgga

213474_at HG-U133A

40 213504_at HG-U133A

213511_s_at HG-U133A

213514_s_at HG-U133A

213539_at HG-U133A

20 213572_s_at HG-U133A

213582_at HG-U133A

213600_at HG-U133A

40 213622_at HG-U133A

WO 03/039443 PCT/EP02/12303 - -

213624_at HG-U133A

10

213639 s at HG-U133A

tgtctggaatgtggccttccacggttgccccactttgtctttctaaggtaagaagccttcaccttccagcttttgtcttggcctgtgctgcgtgggagccactggtctgtgcacat ccacggtgggtgagtggccaagacaagcagtggtaagagtccttgggggtttagtcatctcggaagtcgtagggaagctatggaaaccactgggttctggaacgtt ccagccaggcagtggttgttcctcataggtaggtggccttggccttcatcccagcctgggatgctccattgcatttgtcacctagtcactgtatatacgtgcacatttgacctt 15 ttngcacagcccaggttccaggtgcgtgacctgccctttttctcattcccttaactgacattatttagtgtcagaggccgagcacagt

213674_x_at HG-U133A

213689 x at HG-U133A

30

213716_s_at HG-U133A

tacctgtcccttggctatgagcaggctttgggggcccttccgcggcagccccggggggcgaggtagggtcgggggttagaggctgggatgggatggctctggccccacc gccagggggcagcgcagggcgggtgggaggcggcggcggcggctcggggtggggtcaggtggacgccctccggggctggacgcgcctccagt ccctcggccacccgggggtcgctccctcgtgcccaccgcacctgcgagcctctttggacccagatctgttcatgcttttgtcttcgtcactgcggggggccctttgatgt

35 cttcatctgtatggggtggaaaaatcaccgggaatcccccttcagttctttgaaaaagttccatgactcgaatatctgaaat

213725_x_at HG-U133A

213737_x_at HG-U133A

213772_s_at HG-U133A

213779_at HG-U133A

213798 s at HG-U133A

25 213810_s_at HG-U133A

30 cgtttctaaatgtcttctcttctgcattcgtttatactctt

213844_at HG-U133A

ccctggatgcgcaagctgcacataagtcatgacaacataggcggcccggaaggcaaaagggcccggacggcctacacgcgctaccagaccctggagctggag aaggagttccacttcaaccgttacctgacccgcagaaggaggattgaaatagcacatgctctttgcctctccgagagacaaattaaaatctggttccaaaaccggag aatgaagtggaaaaaagataataagctgaaaagcatgagcatggccgcgggagggggccttccgtccctgagtatctgagcgtttaaagtactgagcagtatta gcggatcccgcgtagtgtcagtactaaggtgactttctgaaactcccttgtgttccttctgtgaagaagccctgttccgttccgttgcctaattcatcttttaatcatgagcctgtttat tgccattatagcgcctgtataagtagatctgctttctgttcatctcttttgcctgaatggct

213846_at HG-U133A

40 gtcgacgcaccggggaacaaggtcgtgaaaaaaaaggtcttggtgaggtgccgccatttcatctgtcctcattctctgcgcctttcgcagagcttccagcagcgaattt gccattttc

213850_s_at HG-U133A

213854_at HG-U133A

213857_s_at HG-U133A

213891 s at HG-U133A

213894_at HG-U133A

213895 at HG-U133A

30 aaggactggtatctttctgtgagcaataaggactggataaagactgcatatccttgtgtcnnnnncagcancnatacaataaggagggttttaatgtgaagcaggcaa tctnccagcccttctggtcttggatgaaatagttgcacaagagtattgcaccaanaatacacaatggaggctgaaaagttcaacatattttaagtcaattaatcaaattgc attgattcttgatgctttcttagaggcctacatgatttcttagattgctctgataaactatcataaggggtccacntcccctcatttagctcccccagggatttcttttcccccatgt catacaccagtcctaaatcaaccccaaggctatccttccatccttctgcagagggaacttttgtcagactctgcaacaaactcctagctctatccagagtgtcctctg ctgctaagattggtatctttctctctcaaaaggcctggatggtgaatgggggtgcattagtcagaattctcc

213902 at HG-U133A

35

40

213922 at HG-U133A

213927_at HG-U133A

213942_at HG-U133A

15 213944_x_at HG-U133A

213963 s at HG-U133A

agttgtgctttattaagtcctggtctggttggtagcttgaagtgtcttttgtatctcctaagtgtatttacttgtaattggtataaatcaacctctggggtatcaatatcttgaacagg

25 tgaatcacctccatcatcatcactcccttttcttcttcttgtttcgaacactctgaattaagttttatgataatcacatatgtaaagatgccttgcgctcttatcca

213979_s_at HG-U133A

214000_s_at HG-U133A

acaaagcaatgataaacccggcacgntcctgagaggaaattcctttgcttcttaaagctgccagtcccggntttttgggggctcatgtgttataaattctggaagctctttt

35 agctgcagtttgagcatcaggcaaatcttcttcctctcctggttcgcttgtgttttaaaaacaagtcagactttaagaagcggctgtagctgtcgtcttctaggagttaaa
gatctggtcctggagtttctggaacatcagagggtgcggttcttccaggatcttctcgttgagccgagactgcccctccacgttgacctgtgatgaggccttgctggacag
aaaggtcatgtagatnntcctttgccttttcctgcatctgcgtcttatcttgcattttctaaaatcttcacatgctagccaaaa

214017_s_at HG-U133A

40 ctacaactgcctcacgaatgacacagacctgtacagcgactgtctccgaaccttctggacctgccccactgtggcctgcatgcgccctcacgcccntggagcgca tcgcccatgagaacacctgcccccagggcccacaggatgggccccaagggggtgaggaagctgccctcgaaaccctccagaagacatctgtcctgcagaggcc ctaccactgcgagggcctgcgggaaggacttcctctttacacccacagaggtgntgcgccaccggaagcagcacgtgtgagctgggccaggagccctgccaacctc cgtgcagctgacctgccctccaggcccaggactaggggcaggactcttgcctgaacccccaggcctgggcttagccctgtggtcctgtcccagtgcagagggcctgga gcacggattgtgaataaagcctc

214030_at HG-U133A

214051_at HG-U133A

10 aatggggatctcctccaaagagcagatttcagcattgcctgacagtcttggttttaggcttgtttttttgtaaacctgtgtgtttgtagagatttcagacatcttctgatttcttctca cctatattccctggttaagaggtcaggggtagtgaatgttccttaagttcctttttaaacttcccattggtatgtaaattccaaatggcagatgctgtcaataaccttgccatg gatgacctttgtgtaggtagtccttgcacctcatgcaggataagccaattttaactttctacaatgggtgcctcaatagtttcataatcttcatgaagttgcatcctttggcagc ttcttacagtttattttcacttccaatgtagca

15 214109_at HG-U133A

214116_at HG-U133A

20 cctgcctttttcctcagtaggctgagggtacacagaggtgatctaagtcagggaccagaagctgtgacatgttaactaagattgataggagaccttaacatccccaaa atccaacccaaactcccaaagatccatgtgccacatgttcattccat

214144_at HG-U133A

214152_at HG-U133A

30 cacttctgtcttttgtgggttcaagagccctctgacttgtgaagaatttgctgccctcttaagagcttgctgacttgttttcttgtgaaaattttttgcacatctgaatatcgtggaa gaaacaataaaactacnnntgaggaaaactaaaggtctttatttaaaatctggcattgtattaacatgtaattttatactatgtggtattttatacatttcctcagtagtgata tttggtaaagcagttcatacagcttttttctaagttccatgaatcttacccagtgtttaccgaagtatttaagcagcatctgaatatttccacccagcaatgttaatttactagg aaagttcagaatttcatcttcatgttgaatttcccttttaacttccgttcatagacatatatgtgacttccaattcgaccctctggcaagtgggaagaaaacagcagtt cttttataattgcttgaaattaggaaagcgcttatttcctagaagcaa

214203_s_at HG-U133A

35

214228_x at HG-U133A

214238 at HG-U133A

15

214310_s_at HG-U133A

20 214315 x at HG-U133A

214316_x_at HG-U133A

25

214317_x_at HG-U133A

30 gaggaggattaagtccacctgtccctcctgggctgctggattgtctcgttttcctgccaaataaa

214321_at HG-U133A

214394 x at HG-U133A

40 cggccgcctactactactactactagctgcgagaagacgacagaaggggacagacttgctggaggaggagatcaccaagtttgaggagcacgtgcagagtgtcgat atcgcagctttcaacaagatctgaagcctgagtgtgtgtacgtgcgcggtgcgtgaggccctgccacgattaaagactgag

214395_x_at HG-U133A

214430_at HG-U133A

10

214439_x_at HG-U133A

214450 at HG-U133A

caggacttcatcatgctgcagaacaacgagcacagaattgcgcagtacctggccacttatggccccatcaccgtgaccatcaacatgaagccccttcagctataccg
gaaaggtgtgatcaaggccacacccaccctgtgacccccagcttgtggaccactctgtcctgctggtgggttttggcagcgtcaagtcagagggggatattggg
cagagacagtctcatcgcagtctcagcctcagcctcacaccccaaccccatactggatcctgaagaactcctgggggggcccaatggggagaagggctatttccg
gctgcaccgaggggagcaatacctgtggcatcaccaagttcccgctcactgcccgtgtgcagaaaccggatatgaagccccgagtctc

214452_at HG-U133A

30

214475_x_at HG-U133A

agaaggtecttaacaagtegtgaacaaacacaaggacetgaagacacaegggttcacaetggagteetgeegtagcatgatngegetcatggatacagatgget
etggaaagetcaacetgcaggagttccaccacetetggaacaagattaaggeetggcagaaaattttcaaanactatgacacagaccagteeggcaccatcaaca
getacgagatgegaaatgcagtcaacgacgcaggattccacetcaacaacagetctatgacatcattaccatngeggtacgcagacaaacacatgaacategac
tttgacagtttcatetgetngettegttaggentggagggcatgttcagagettttcatgcatttgacaaggnnngagatggtatcatcaagetcaacgttctggagtgget
geagetcaccatgtatnnetgaaccaggetggcetcatccaaagccatgcaggatcactcaggat

214500_at HG-U133A

214501_s_at HG-U133A

acagcagctcagctgattctgaaggccatctccagttacttcgtgtctacaatgtcctcttccatcaaaacggtgtacttcgtgctttttgacagcgagagtataggcatctatgtgcaggaaatggccaagctggacgccaactaggctgagcaatgacagaaccagctgcac

214505_s_at HG-U133A

10

214523 at HG-U133A

214558 at HG-U133A

25 214575_s_at HG-U133A

30 tcaacaacccgg

214615_at HG-U133A

214651_s_at HG-U133A

214686_at HG-U133A

214693 x at HG-U133A

15 214700_x_at HG-U133A

ttatttgaatttttgctgaactgataaaggtgtttatattttngttngttngtttgtttaattcatgtttgttgggactgaggtttaggaagttngttactggttaaaaacctcaaatga aatgcgaaagaatttgaatttttcctgcatatgtcaactttggacagctttcaagaaaaatgagaaaagtttcaacttctggcggttaaaatattaatgcagaatttactaa gattttattcatttgcattagcaaatattcatgcagcagcagttgactgaaaatttattcttatgagacgtatagtattcatttttaaatgcatgattgtacattatgtatagacga caatgtttttaatttataaatttcattctttgttaattgcatgggtttttctgcagcttattgtgaataccttggttctgttcaataga

20

214761_at HG-U133A

214786_at HG-U133A

gatctgtacctaagctcagtatgcaaaagcccaaactagtgcagaaactgtaaactgtgcctttcaaagaactggccctaggtgaacaggaaaacaatgaagtttgc.

30 atgactaaattgcagaagcataattttatttttttggagcacttttcagcaatattagcggctgaggggctcaggatctattttaatatttcaattattccatttcatatagtgatcacaagcagggggttctgcaattccgttca

214789 x at HG-U133A

ggtctaatctcttttgtgtttttgtgcaccaggcccggctgcgtagcagttgagtgatgctggttagctattaaggtggcctgttgcagtgcagagtgctgagctgcttcctgttt

tcttctgattgctcctggggaaaacacgccttgtcctgaagaacaaatggctgtccagtttattaaaatgcctgtcaactgcacttccagtcacccaggcnttgcagataa
ataatggagcatgcagtgagcacatctagctgacgataatcacaccttttcccccgtcttttctgaaaaattgtaaattgtaaactgatcaacatgtatgaacttaaaaatatg
gagaatgttatggaagaaatagtttataagttngttaagtacttataacatggtttatcttttngattattatatttttacgctaaccattgtttctgtagttaaaattgtttcttggtgt
tatcttttctc

40 214849_at HG-U133A

atgcctctggcaggggatgaagaagtactcactggtaattagctaccatctttgcagcagccctggtaacttgaaaaatttgggtctggtgctgttcattgagtctttgtgtaacttgcaaaagcaggaaaggaagtcaagactcctgttgcctcgtgcttagcaaagcagtccttatcctttatactct

214875_x_at HG-U133A

5 gcaggatgggggactgatcggtgccgaagagaaagtgattaacagtaagaataaagtggatgaaaacatggtcattgacgagactctggatgttaaggaaatgatt ttcaatgccgagagagttggaggcctcgaggaagagcgggaatccgtggggcccactgcggnaggacttcagtntgagtagcagtgctctcattggcntgctggtcat cgcagtggccattgccacggtcatcgtcatcagcctggtgatgctgaggaagaggcagtatggcaccatcagccacgggatcgtggaggttgatccaatgctcacc ccagaagagcgtcacntgaacaagatgcagaaccatggctatgagaaccccacctacaaatacctggagcagatgcagatttaggtggcagggagcgcgca gccctggcggagggatgcagatgtgcaggctcctcctctctggactttctccaaaggc

10

214894_x_at HG-U133A

214911_s_at HG-U133A

25

214924_s_at HG-U133A

30 agagtetgatgenteetatttgtaacaatgggtgtageteecetgeeeatcttggaggtgeatggeeeatcag

214949_at HG-U133A

35

214950_at HG-U133A

totggcccaacacatcatggcccatcccagcantgccccatcccttctgggtgccccaggcagatcacaggagggcctgactgtgggctttgggcttgacattgg
gatcatctgcctagttagggctgtgaccagactgagataggaggtggacctgactcctgaggcagggcttgaactctggaccagattacagactagctgaaacag
gcaaaagcacccctccataagacacacccactggtgccaagtgagtttgccgttctcatggtaacagctggaaattactgcccctttccatggcaatgactgaaagtt
40 accaccccttttctagaaatttctaaataacctcctccttaatttgtatatagttacaagtgggtataaatatgtgtgcagaactgcctctgagctgctactctgggctnactgc
ctatggggcatccctgctccataaggagcagtacctctgctgccac

215001_s_at HG-U133A

215049_x_at HG-U133A

cgtcagtcatcctttattgcagtcgggatccttggggttgtctgttggccattttcgtcgcattattcttcttgactaaaaagcgaagacagcggcttgcagtttcct caagaggagagaacttagtccaccaaattcaataccgggagatgaattcttgcctgaatgcagatgatctggacctaatgaattcctcagaaaattcccatgagtcag 10 ctgatttcagtgctgctgaactaatttctgtgtctaaatttcttcctatttctggaatggaaaaggaggccattctgagccacactgaaaaggaaaatgggaatttataaccc agtgagttcagcctttaagataccttgatgaagacctggactattgaatggagcagaaattcacctctctcactgactattacagttgcatttttatggagttcttcttctccta ggattcctaagactgctgctga

215087_at HG-U133A

15 ccatcittggtgcagtgtttccggcactctggttaggccctgttttctagctgagatnatttccntgatctccagcctagcancccctttgntgagctctagccctaaataacc cactgcatgctgggcctcagcccctgggtctctctcccacactgaactcatcccaaatcacactcccgagccttcccctcagctcacttcccacaaccagttcttttccat gtcagtgaagggcaccccctttcacaaagctcctcatgctctagacctggtgagggccacagctgcctttttgaacgtgtagttttgcagtcctcccggcccttgcatac acagaagtgtgcgcataagtcgcattgttttgtggtttgcttttcctctactaaatgatgtgcctgctgttctccagcttgttttcttttaanntcctggaggaccacacacactgcc gaagtgttg

20

215100_at HG-U133A

215115 x at HG-U133A

35 215215_s_at HG-U133A

215227 x at HG-U133A

gctgtttctgactggaacgtgggccggtccccagacccaagagctgtgagctgcctaagaaatcatggcattcacacagcccataaagcaagacagattaccaaa gaagattttgccacatttgattatatactatgtatggatgaaagcaatctgagagatttgaatagaaaaagtaatcnagttaaaacctgcaaagctaaaattgaactact

5 215346 at HG-U133A

215379_x at HG-U133A

215450_at HG-U133A

20 aaaacaaactgtatccttctcaacaatttctcattgatcatttctagttggagacactttgtagcagagtaatattatctccttttagcatgatccgacccagttgttttctt gactttgttttagaatgaatctcttctgcatcatctaatacaaggttcatatactcatcaaaaccaatgatacagccttctatccgcatattcacttgctcatagagccacacc tgaatccgcgatctattttgtaagtatctgaagatgaggttgatgggctgcaccataaccttc

215537_x_at HG-U133A

215622_x_at HG-U133A

30 .

215785 s at HG-U133A

atcattaagaatgtgccctgaagaagatggccgaccggatcaggaagtatcagatcttgaacaatgaggtttttgccatcctgaacaaatacatgaagtccgtggag acagacagttccactgtggagcatgtgcgctgcttccagccacccatccaccagtccttggccaccacttgctaagcagaagatcctgcagacccttatntggagga 40 ggaagaagcaggagagagagaaagccacagccagcctgccataggatccaactggacaacgtgtgggatggacctggaaacaagcacctccccaaacacat caccactccctagggcggggcctgtgcatgctctcccatgacatctccatgctggtttctccatagca

215855_s_at HG-U133A

agccaactgaacctgctaattgccagaattaggcatattcggctgatctgtcacaggaaatgctgggctggagcaggcntcccatgttttacaacctgcctacataaga cataagcatctaggagcagagaatccctcctctttcaagcagctctttcccaacagaataaagggaagtcactgagctgtgaatgcctgttc

215925_s_at HG-U133A

216015_s_at HG-U133A

cccagccagctggaattgttctactgtttgtacgagatgcaggaggaggacttcgtgcaaagggccatggactatttccccaagattgagatcaatctctccaccagaa tggaccacatggtttcttccttttgcattgagaactgtcatcgggtggagtcactgtccctggggtttctccataacatgcccaaggaggaagaggaggaaaagga 15 aggccgacaccttgatatggtgc

216032_s_at HG-U133A

ccatgtgcacgtccatgacttgcagagctttggccttgacaacatcaacatgacccactacatccagcactgtcatttggggaggactatccaggcattgtgaacccc
ctggaccacaccaatgtcactgcgccccaagcctccatgatgttccagtactttgtgaaggtggtgcccactgtgtacatgaaggtggacggaggaggtactgaggac
aaatncagttctctgtgaccagacatgagaaggttgccaatgggctgttgggcgaccaaggccttcccggagtcttcgctcnatctaccanctcagcacngagccatc
cnagaagaaaattgatctagggaagacaacgtagtcaccctcggtgcttcctctgtctcctctttctccctggcctgtggttgtccccagcctctgccaccctccacctcc
tcggtcagccccaggctgataaaatctat

216044 x at HG-U133A

30

216095_x_at HG-U133A

216218_s_at HG-U133A

216304_x_at HG-U133A

atctcgcagaagctttattgacctatgagactttgnatgccaaagagattcaaattgttcttgaggggaaaaagttggaagtgagatgataactctcttgatatggatgctt gctggttttattgcaagaatanaagtagcattgcagtagtctacttttacaacgctttcccctcattcttgatgtggtgtaattgaagggtgtgaaatgctttgtcaatcatttgtc

acatttatccagtttgggttattctcattatgacacctattgcaaattagcatcccatggcaaatatattttgaaaaaataaagaactatcaggattgaaaacagctcttttga ggaatgtcaattagttattaagttgaaagtaattaatgattttaagtctggttactctactagatttgataaaaattgtgcctttagccttctatatacatcagtggaaacttaag atgcggtgtttgagattgcggtgtttgggattgcggt

5 216320_x_at HG-U133A

10 gctggccagctgtcttcacgcgtgtctctgtgtttgtggactggattcacaaggtcatgagactgggttaggcccagccttgatgccatatg

216356_x_at HG-U133A

216363_at HG-U133A

20 acttataataagtccccgaatcataataataccctctcgcacagtaatacatggcggtgtccgaagcctccagggtgttccactgcaggaaggcggtgttgatggactt gtcgactgagatggagacctggccctggaaggacgggctgtatctggtgtcagagtcaccaggatagatgatccccatccactccaggcctttcccgggcatctggc gcacccagccgatccagtagtcggaa

216379_x_at HG-U133A

30 216399_s_at HG-U133A

010110

35

216449_x_at HG-U133A

216450_x_at HG-U133A

216609_at HG-U133A

10

216640 s at HG-U133A

216652_s_at HG-U133A

216680 s at HG-U133A

ttgcactttgagcccgtggggtgaggagttggcaatttggaggacaggatttgggggttctgccataataggaggggaaaatcacccccagccacctcggggaa ctccagaccaagggtgagggcgctttccctcaggactgggtgtgaccagaggaaaaggaagtgcccaacatctcccagctcccaggtgccccctcaccttg atgggtgcgttcccgcagaccaaagagggtgtgactcccttgccagctccagagtggggggctgtcccagggggcaagaaggggtgtcagggcccagtgacaa aatcattggggtttgtagtcccaacttgctgctgtcaccaccaaactcaatcattttttcccttgtaaatgcccctccccagctgctgccttcatattgaagg

216698_x_at HG-U133A

216833_x_at HG-U133A

35 gagcatatcagcatggagtacctctggtgtggcaatgcacacttcaacctcctcttcggtcacaaagagttacatctcatcacagacaaatggagaaatgggacaact tgtccatcgtttcactgtaccaggcatgaggatgtggcctgcatgctgcctgatcttgcctagaaccggctgcacctgctgttctcttgtttatgcaaactggctgcacctgct at

216860_s_at HG-U133A

40 ggggcatcgagatcaacgcctttgatcccagtggcacagacctggctgtcacctccctggggccgggagccgaggggctgcatccattcatggagcttcgagtccta gagaacacaaaacgttcccggcggaacctgggtctggactgcgacgagcactcaagcgagtcccgctgctgccgatatcccctcacagtggactttgaggctttcg gctgggactggatcatcgcacctaagcgctacaaggccaactactgctccggccagtgcgagtacatgttcatgcaaaaaatatccgcatacccatttggtgcagcag gccaatccaagaggctctgctgggccctgttgtacccccaccaagatgtccccaatcaacatgctctacttcaatgacaagcagcagattatctacggcaagatccct ggcat

217047_s_at HG-U133A

217080_s_at HG-U133A

15

217156_at HG-U133A

atgaacggtattttagcaagtctgaagatgcctcctaagtctgaagtctcctcagatgaagacatccagttccgcctgctgacaagatttgtgaatgaggcagtcacgtg cccgcaagaggggatcttggccacacctgcagagggagacattggagccgtcttcgggctcagcttcccaccttgtcttggagggcctttctgctttgtggatctgtatg aagcccagaagatagtggacgggctcaagaagtatgaggctgcctatggaaaagagttcaccccaagccag

20

217179_x_at HG-U133A

aggacagagggtcaccatctcttgctctggaagcagctccaacattgggaagaattatgtatcctggtaccagcaactcccaggaacagcccccaaactcctcatct ataaaaataataagcgaccctcagggattcctgaccgattctctggctccaagtctggcacgtcagccaccctgggcatcaccagactccagactggggacgaggc cgattattactgcggaacatgggatagcagcctgagtggtggccgggggatat

25

217185_s_at HG-U133A

ctcagaccaacatgaagctagtacaaatccctcactttaaggagggaccaagtacaagaactgcgtgcatcagaccaatgaggtgaaatctggagaagcagtag
aacccttgggcaccaggatcaccctccacatcacaggtccctcagatatgaccagagacctcctcaagtctgagacttgtagtgtggaaatcccagagccagaattt
gactgggaatggccatcctcaggtgcaagttcaccaccactagaagggctgctgaaagatatctgggaactggtgaccaaaaaccctttcacactgggcgacagttc
aatcctggccagacggagagactgcaggagtttagccagaagatggaccagatcatcgaaggtaacatgaagaccgactttattatggatgattcagcaggaaa
cagttacttgcagaat

217223_s_at HG-U133A

40 217225_x_at HG-U133A

gaacagattgcagtctcacttgggacaggccacagccaggggtccggccactacccgccgtgggataaaagccaaaagcatgcgtcagctaacttcagcctgtgc tgctgggcccgcaccccatgtcccttgtcactgtggcatcctgcacccatcctcacccctccgtagagccctcgtgcaatgcaatgcatggaccctcctgtcactctgct

217375_at HG-U133A

10 217383_at HG-U133A

15 217398 x at HG-U133A

217418 x at HG-U133A

30 217419_x_at HG-U133A

217478_s_at HG-U133A

217504_at HG-U133A

217520_x_at HG-U133A

217521_at HG-U133A

gcttccaagtctaagctctgtgactttgcaccagtgtgtgnatatatgtgcaaggcccttcaagtggtctgaaaccgtggctctaaaaaccacagctggtggagagga ggacagacacacttgccaccttgcctacctaattgccatctaaaatgggccgaacagtggatttcacaatagagttttcaccctttaganttacaacctgtcaggtggaa 15 actgaagtgaaaactgctgcncacagcaattcagggagcaaaaaatgtgctgaggagactgtttacctaaaggttgttcttggtgctattccttgtcaaaatgtgaaca cacacaaatgaggtttgtgcattgtcatccgtgggctgccattgagccagtaacccccagtggtctcatggtgctcttcagctccagtttggggaatgctggattctttcagc ccctgcagccctccaggtcaaaatgacactttgtcactgagttttctacacagctctattagtaactgacagcacacagccttcaagggaacttcaa

217559_at HG-U133A

20 gacaggetecagacaggtatgegaggtgectttggaaaaccccagggtactgtagecegggtecacattggteaagteateatgtecateegeaccaagetteagaa egaggageatntgattgaageettgegeaggtecaagtteaagtteetgaegeagaagatteatateteeaagaagtggggetteaegaagttaatgetgaeg aatttgaagacatggtggecaagaagtgecteateeetgatggttgtggagteaagtaegtteeeagteatggeeetttggaeaagtggegggttetgeaeteatgaag gttttggeagtae

25 217716_s_at HG-U133A

217768 at HG-U133A

217816_s_at HG-U133A

40 attteettgaaaacteetacaatattatatttggaggcagetteagactgttttattggtggtagetgettgetgaggtettttagttggtaataacteeagagaagcageetgt gtatatteetaacactttgtteactageatttaagtttagaataagceeaagtaagacaattggaaatgtatatagaactettagttettacatgatttaattatategatacatg aatttaaettaatttaatgtaggeaaactateaatttttitgteeatttteetgttgttaaaataacataceteeteetagtatttattteetgatacatg caagetgggagaga

217838_s_at HG-U133A

217916_s_at HG-U133A

217920_at HG-U133A

20 217950_at HG-U133A

ccagatgatgtccaacctgggcccagtgtgggtcctccaagtaaggacaaggacaaagtgctgcccagcttctggatcccgtcgctgacgcccgaagccaaggcc accaagctggagaagccgtcccgcacggtgacctgcccatgtcagggaagcccctgcgcatgtcggacctgacgccgtgcacttcacaccgctagacagctcc gtggaccgcgtggggctcatcacccgcagcgagcgctacgtgtgtgccgtgacccggacagcctgagcaacgccaccccctgcgctgtgctgcggcccttggg gctgtggtcaccctcgaatgcgtggagaagctgattcggaaggacatggtggaccctgtgactggagacaaactcacagaccgcgacatcatcgtgctgcagcgg gcggtaccggcttcgcgggctccggagtgaagctgcaagcggagaaatcacggccggtgatgcaggcctgagtgtgtgcggga

217963_s_at HG-U133A

217966_s_at HG-U133A

217979 at HG-U133A

40

atggataatttacttgtgtcttttatgattacaccaatgtattctagaaatagttatgtcttaggaaattgtggtttaatttttgacttttacaggtaagtgcaaaggagaagtggtt tcatgaaatgttctaatgtataataacatttaccttcagcctccatcagaatggaacgagttttgagtaatcaggaagtatatctatatgatcttgatattgttttataataatttg

aagtctaaaaagactgcatttttaaacaagttagtattaatgcgttggcccacgtagcaaaaagatatttgattatcttaaaaattgttaaataccgttttcatgaaagttctca gtattgtaacagcaacttgtcaaacctaagcatatttgaatatgatctcccataatttgaaattgaaatcgtattgtgtggctctgtatattctgtt

217988_at HG-U133A

10 217989_at HG-U133A

217994_x_at HG-U133A

25 218039_at HG-U133A

218041_x_at HG-U133A

218051_s_at HG-U133A

218089_at HG-U133A

218090_s_at HG-U133A

218094_s_at HG-U133A

20

218100_s_at HG-U133A

218109_s_at HG-U133A

35 218122 s at HG-U133A

gtgagaaaactttgcctggtccctctagctgctggtggttctttcacagacatttccatatacctcatgcattgtgggttaaaaagtccctgcatcacttctgttctcacaggta ctgagctgtcaaaagtgcatgaaggcctctcactgtactctagtcctgacttggggtgcagagggctgcttgcaatcctgtttgtaaggctgtgcctgctcagagctttgga ctgttcaacccacaaagaacaaacgctaactaatatttttttaagagattcttttccctatgaatgtgggaaatgcaggatttattctgtgaattgttgttctgtgtgtcc agcgtattcattcactcactcgttttgcaaac

40

218144_s_at HG-U133A

218151_x_at HG-U133A

10 218168_s_at HG-U133A

218172_s_at HG-U133A

20

218191_s_at HG-U133A

218223_s_at HG-U133A

ggagageggacteagacegcatecageceteegagacegggaageagteteteeegacettgggaaaaaacagacaaaggggccacetaacececeag
geacecaagaagttgacgeccacagagaaaggecgctgegeeteectggaggagatectateteagegggatgetgeetetgeeggget
gaggaacececaacecetgeeeteecaacecggggcagetgteeeggatecaggacetggtagcaaggaaactggaggagaeteaggagettetggeagag
gtteagggactgggaatgggaagegaaaggecaaggacececeteggteteegeggattetgagteagageagetgetgetggagaeggaaeggetgetggg
agaggcateategaattggagcaaggcaa

35 218224 at HG-U133A

218237 s at HG-U133A

ggcagctgaactcgggtagtccagtggcctagctggtaccacatctattcccatccagagacattctctggcaagtgttctcagctgaaaagtggttggggatgattctta ccttggtaattaaatgaagctacacatttgggtaatctagcaaatgaagtatttttccctcttggcaacttgtgtcagagttactctggtcagatcaactttcgctggggaaa

5 218259_at HG-U133A

10 218319_at HG-U133A

15 gtcctgtgttgtatttgttct

218329_at HG-U133A

218331_s_at HG-U133A

30

218338_at HG-U133A

218341_at HG-U133A

218351_at HG-U133A

attticatgattgttttgcctcatttattaaatatttggagaaatctttggagatacatagttttattgaaagctaaaaataggttctaaagtaatgtaaaaatataaagcacaaat atacttgaatattgcttaaagaattgtgtgaatagcaacatatattatggatatatactttgtgatatttttaaaaaataatttttcaaagaatgtataagctgcatatataactc aggagattccatgtctttccatatttcagaggaaagattataaaatataaaatttcttagaggaacacctctttgtcagagataaacaagaacaaatactctaaacttatgt gaacagttttgagtttatgaattctagaaactaaaatcaagaatacagaaaaatgaaaataacattttacttctgcgcttctatgtttgggaaacattgctctgataaaaaa tagctgtcattatgcagtgtgtatattcaaaatagagataagactatgtacacatcacttttgttaata

218354_at HG-U133A

agcctcccaagatggcggtgtgcatcgcggtgattgccaaggagaattacccctctacattcgcagcacccctacggagaacgagctgaagttccactacatggtg

10 cacacatctctggacgtggtggatgagaagatctccgcaatggggaaggccttggtcgaccagagggagctgtacctgggcctgctctaccccacggaggactac

aaggtatacggctacgtcaccaactccaaggtgaagtttgtcatggtggtagattcctccaacacagcccttcgagacaacgaaattcgcagcatgttccggaagcta

cacaactcctacacagacgtgatgtgcaaccccttctacaacccgggggaccgcatccagtccagcagggcctttgataacatggtgacgtcgatgatgatacaggt

gtgctgagtgagctgtgctgcca

15 218355_at HG-U133A

20

218379_at HG-U133A

218384_at HG-U133A

218424_s_at HG-U133A

40

218464_s_at HG-U133A

gggcttttttatttttacagatgaaataagcccttacctttcctcttgtctctggggaatgtcagctgatggttcttatttaaggttttgcattttgttcactatccactactgttcgtta gcc

218468_s_at HG-U133A

5 ggagatgacttaagttggcagcagtaatcttcttttaggagcttgtaccacagtcttgcacataagtgcagatttgccccaagtaaagagaatttcctcaacactaacttc acggggataatcaccacgtaactacccttaaagcatatcactagccaaagaggggaatatctgttcttcttactgtgcctatattaagactagtacaaatgtggtgtgtctt ccaactttcattgaaaatgccatatctataccatattttattcgagtcactgatgatgtaatgatatattttttcattattatagtagaatatttttatggcaagagatttgtggtcttg atcatacctatt

10 218469 at HG-U133A

218482 at HG-U133A

218499_at HG-U133A

30 218516_s_at HG-U133A

ggtaatgccatcttaaaagccctaggggggcatatgactacctgagtggtgaagaaatcagttacactggttcagacggcattgaagggggactccttgctagcatcagaaatgaaccaccaggccctggtcagaaaactcccagatctagaaaagacaggacataaatgagcataactgattacagggtacagttcttcacagctgaaatggttagcctgagatgctggaagcttcaaaggattggtggagactatgcatggttaaggccatcccgaactttttaaagtatttatgaagcatcagagacttattttccctgtaatagaatgcaaaatcagggaaaatgggttgctttgtgtctcaagtattgtctttatttttgagactattttcatacagttgtcat

218517 at HG-U133A

35

ggccctcatggctatttttgttgcattatagcatataggcagcagctctgaagcttcagtaacactaagaaatttatgtgtaaatatagcagtcagggaagagaattttaaa aaaggtcattattgaagaagctgaggggacagggtagagctgctgcaatatggagatttagggtaatatggcaaggtcctgctgctgcagtggggttgtg gatatgggactggtggagagtgagactgttaggaaagttgtatctatgaataagggcagttgaagtagaaatttttaccagtccacttgaccttcttctccctaaccactgg ctcttgagccagcttggggatttccctggccattgccaatactggccatctggcttccaatagtacagtggctactcaagttcaagcgaagaacttccagactctggtgac tgttacttccagagccaaccactagtgcatatgttagggaatctgggcttccaacatgaat

218531_at HG-U133A

5

218543 s at HG-U133A

actttgctgcttattggcaccagggacagagtttctagatacaattttatggattggttttaattttatgggtttgctctgcagtgattcggtttctcagagtctcatggcatcata
gtttttccagaatgacacagtagccaccggtggatgacagcccacgggcggcacagtcacttctgcctgttgctctgacaccaacccaggcagctctgtgggttc
cctgggctctggcattagttggtctgtgtcaccattgtcagaacaggtggctgctgtgtggtgccatcgagtccctgctggttccccttgtcctgggagggtcacccattgccc
aaggaagtgcatccacctggcaggtgacctggaggagtagcttccccgaggacccccaggcttggcctgtgattgcgcaaacccacatttcctaagcacactggac
acccttcgagtgtgggttttaacatccctgtgagattgaatacttgtgccacacat

218549_s_at HG-U133A

20 218577_at HG-U133A

25 ggatgattgaggcatgctt

218582_at HG-U133A

218589_at HG-U133A

35 gggtaacaatgcctcagaagcctgctttgaaaattttccagaagccacatggaaaacatatctctcaaggattgtaattttcatcgaaatagtgggatttttattcctctaat tttaaatgtaacttgttctagtatggtgctaaaaactttaaccaaaccagttacattaagtagaagcaaaataaacaaaactaaggttttaaaaatgatttttgtacatttgat catattctgtttctgttttgttccttacaatatcaatcttattttatattctcttgtgagaacacaaacatttgttaattgctcagtagtggcagcagtaaggacaatgtacccaatc actctctgtattgctgtttccaactgttgttttgaccctatagtttactactttacattggacacaattcagaattcaataaaaatgaaaaactggtctgtcaggagaagtgact tcagattctctgaagttcatggtgcagagaattttattcagcataacctacagaccttaaaaagtaagatatttgacaatgaatctgctgcctgaa

40

218614 at HG-U133A

218642_s_at HG-U133A

10

а

218645 at HG-U133A

218662_s_at HG-U133A

ggacgaacaggaggtgtcagactgctgaagccgactctgaaagtgatcatgaagttccagaaccagaatcagaaatgaagatgaagactaccaagacgagccaa

20 aaccgcagcactagaaaaaagtaaacttaaccttgcccaatttctcaatgaagatctaagttaggaaagacgatggaagtggaatcctttaagattatgtccagttattt
gctttaa

218663_at HG-U133A

aattcgagtctatacaaaagccttgagttctttagaactcagtagccatcttgcaaaagatcttctggttctattgaatgagattctggagcaagtaaaagataggacatgt ctgagagctttggagaaaatcaagattcagttagaaaaaggaaataaagaattttggtgaccaagctgaagcagcacaggatgccaccttgactacaactactttcc aaaatgaagatgaaaagaataaagaagtatatatgactccactcaggggtgtaaaagcaacccaagcatcaaagtctactcagctaaagactaacagaggaca gagaaaagtgacagtttcagctaggacgaaca

218692_at HG-U133A

30 aaaccggaggtatcttcaaaggcatggagacctggttccagtaaatgtcccaccagtggggtatagaaagcatgctcatgaccctgccgtgtcgtctgaggtacccgt tcttatcctagtggttcaggaagagaaaacgcagtttgcactttcaagacagcttctctaaggctggcatgttatctccttgcttttgctttttgccgttttaaaatgtgtaattgttc cagcattccaatggtcttgtgcatagcaggggactgtaaccaaaaataaacatgtatttgtgtaattggtttgaagaagtcttgaatagctcttacttggggttg ataagatttgagtgtttgcaatttittactaaatgtagctccaagtcttaaatggctt

35 218718_at HG-U133A

40 aaatgcttaatatcgtgcctaggttatgtggtgact

218764_at HG-U133A

cacca agac gact get teaget teat teat teat teat the control of th

218836 at HG-U133A

5 ccgagaaccaggcgctggcgaggttttactgctacactgagaggaccattgcgaagcggctcgtcttgcggcgggatccctcggtgaagaggactctctgccgagg ctgctcttccctcctcgtcccgggcctcacctgcaccagggccagagacgctgcaggggacagcgtggaccgtacagacctgcctaacatgccagcgcagcca acgcttcctcaatgatcccgggcatttactctggggagacaggcctgaggcccagctcgggagccaagcagattccaaaccactacaacccttgccaaacacagc ccactccatttcagaccgcttcctgaggagaaaatgcagactcagggttccagtaaccagtgatggattcaccccatctc

10 218913_s_at HG-U133A

ttgagattacccaggagacagcccggctactctcgaaattggacagcgaggctgtgcccagggccacctgctgcccggacgtccagcctgaggaagccgaggac catctctgaccaccctggcaccttaaataaggaagaggcccagattgtgaacacggacccatatatccctacctccaccacctagtggccaaacaccccgccag gagttcaatgctgggagaggtccagagggttcctataaggaaaaactatttaatacatgacctaggggaggcctaaaacccttttggggataatgtcccagagtcccc ccactagacacaggtcactgccaagcatcagggccactcgggctcagaggtcactcagggtcaatactcagggtcagtgcagttatgagatccttggggtccacc

218916_at HG-U133A

218933_at HG-U133A

30 218938_at HG-U133A

218942_at HG-U133A

218974 at HG-U133A

taaatgtttattottotagotttotttaaattoccctaaatagogocccatttgggaacagagoaagatgtgaactgaagaccaaaatgocctcaaggtgtaaaata atccgagggggaatatttgctgggcgtcaggaaagactcaaatgaaatttcaaccctgatggttttcggtgatccaggaagtcagtgagacaatctctctatatgcaga gccctttcatgttaattagaatggtatggacaaaccaatgaaaacaaggggaaagtgagaaagatcacccatgattctgtttcactgtttgctttcctgtcatggttaa gagaaatgtgcaattogatcctcaatcagtgggtggaggataacagggtagattcacttgtgtgcacttgtacagttgtagctgcgagtccagaagtcctctagagcat gtgtactggca

219013_at HG-U133A

219027_s_at HG-U133A

20 219029 at HG-U133A

219033 at HG-U133A

219036_at HG-U133A

219073_s_at HG-U133A

219076_s_at HG-U133A

gttgttcttcctcatcatgaactttctggaggggaaagacgcctcagccttcgccgccaagatgagggggggtttctggccggcggtgaggatgaactggcgggtgtg gacgccactacagttcatcaactacgtccctctgaagttccgggtgctcttcgccaacctggcagctctgttctggtatgcctacctggcctccttggggaagtg acgaccgctgggagaacatcaggtgcactgtggacgtgggtctgggggtctcacccgcccagcgagagcagaaccaatccagtcaggatgtcactgactctaaat 5 caggtgattcaagatgcccaaaaatgatggatagagaaacagaaatctctgaatgtcagaaccctgtcttttaaaaaggcagtcgctgccttcaggtggt

219079_at HG-U133A

219084_at HG-U133A

20

219090_at HG-U133A

219099_at HG-U133A

219111_s_at HG-U133A

35 gtgcccgctccaagaagggcaagatgcggaagaggatgtgaggaccaggacccagccccgtggctccttgattggccttagggtgggcatcagcagacgttccc gtgcaccactgtgtgcctggccctgtgctgggcactgggggcactccctgcaggaggccatcatctgtgaaaaaggagcactgtatggccacagaagggcagcagct gcgtcagcctaagacagagacatttgaacagggccttgaagggtgtgcaggagttcgccagcagagccaggccaagacttgagttggcaactgagttggcaactggttggcagggtttggcaagggcttagggtttggcaatggatt

40 219138_at HG-U133A

gcngaaacttgaggatgaaatcagtgagctgcatgcacttgaaaggcatggcctgtctcctcacttgagtgcaaggtccatcgaccaaagccctgttctgatcaataa catctacaatcgcgaccaattttccggcatgaggtccaaaggagaccataggccacccggc

219156 at HG-U133A

10

219202 at HG-U133A

219221_at HG-U133A

20 gacggtgcttttcggtgcaaggaaacttacagaaacatgaacgcatccacctgggcttgaaggagttcgtctgtcagtattgcaacaaggcattcaccttgaatgaga ccctcaaaatccatgaaagaatccatactggagaaaagcgttaccactgtcagttctgctttcagagatttttgtatctctccaccaaaaggaatcacgagaggca tattcgggagcataatgggaagggctatgcctgcttccagtgcccaaaatttgcaaaacagctgctgcccttggaatgcaccaaaagaaacacttattcaaaagcc caagtcagcaggagaaaaataggtgacgtgtgccacgaaaactcaaatcccttggagaatcaacatttcattggttcagaagacaatgaccaaaaggataacatac aaaccggtgtggaaaatgttgtcctttgagtgga

25

219229_at HG-U133A

219234_x_at HG-U133A

40 219271_at HG-U133A

ttcccacatcgagcacatagcatcccacctctgcctcgatacagatatgttcggtgatggcaccgagaacggcaaggaaatcgtcgtcaacccatgtgagtcctcact catgagccagcactgggacatggtgagctcttgaggacccctgccagaagcagcaagggccatggggtggtgcttccctggaccagaacagactggaaactggg cagcaagcagcctgcaaccacctcagacatcctggactgggaggtggaggcagagccccccaggacaggagcaactgtctcagggagacagaggaaaac

219280_at HG-U133A

5 ggaagagatcgcatcctggattggaaaatgtgaaaatctctgaaacaactgggaattcaaagtttagacctgatactagttccaaatcatcagatttgggatctgtaact gaatcagatattgactgtactgataatacaaaaaccaaaaggaggaaaacgaaaggaaaagcaaaagtagttagaaaaggtaaaacttttacagctaacatatct aaaactgtgagacgtcaaagacaaagcaaacgccctaggttaagtgtggatgataatgactgggaggatttggactatgcaaaatctaaaagagttcttcgacgttc aaaaataaaaacgagaaatcagggtagaaggactgtgagataccatgatgggatgatgacagaagtttagaaaatgtgttagatttcaatggttgcaccttatgac cttgagggaaagccagttcatttaagaggaaatggactggcatttatggtgaaagctggcigttaaaattatttt

10

219291 at HG-U133A

219312 s at HG-U133A

25 219329_s_at HG-U133A

219337_at HG-U133A

40 219358_s_at HG-U133A

219360_s at HG-U133A

10 219362_at HG-U133A

tgtggcagctagtaagcactttcaacaggcaaaaatgatattggaaaatattcctaacccggaccatgaggttaatagaattttaaaggttgccaaacccaactttgtg
gttatgaagttattggcaggaggacacaaaaaggaatctaaagttcctcctgaatttgatttctctgctcataaatattttcctgttgtggaaacttgtttgaggagagagggg
aggtggccataaaggggcagagtcttctttcagacccaactcttagagggcacatcaccaggctccacatcacgggaagtgagatggatttcttgggtaacaactcat
tataaggaatacttttagtttgacagccttatatgacatgaaatgaaaactgctgttttaaagtggtttattatgttccatggaagaaactggtcttattgaatgcattg

15

219452 at HG-U133A

atcacttcgaccacatcaaggctgtcattggatccaagttcatcgggattggtggagattatgatggggccggcaaattccctcaggggctggaagacgtgtccacat acccggtcctgatagaggagttgctgagtcgtggagtgaggaagaggttcagggtgtccttcgtggaaaacctgctgcgggtcttcagacaagtggaaaaggta caggaagaaaacaaatggcaaagccccttggaggacaagttcccggatgagcagctgagcagttcctgccactccgacctctcacgtctgcgtcagagacagag tctgacttcaggccaggaactcactgagattcccatacactggacagccaagttaccagccaagtggtcagtctcagagtcctccccccacatggccccagtccttgc

219457_s_at HG-U133A

agttgtggccaccttcccagtccttattctgtggctctgatgacccagttagtcctgccagatgtcactgta

219463_at HG-U133A

35

219471_at HG-U133A

219477_s_at HG-U133A

atccccaaagataactaccagagggtcagttctctgagcccttctcagtgtagaaaagacaagtgtcaaagcttccccactgagtttgccttctatgacaata cgtcgtttggcctcactgaggctgagcagaggatgctggacctcccaggatattttgggtcaaatgaagaggatgaaaccacaagtacacttagcgtggagaagctg gtgatctagactgagaatcagctgagattacacagctggggtctgctactcgcgttttgtagacttttgtgtaactatttgtaccgtaggaca

5 219478_at HG-U133A

aggitgcaagaacattcctctactttctgctaagccttggaaacagttgggaaaagtagtttgaccctcacagttcacattcagctcagcagagcaagaccccagagat gcttagagacaggacacctggccatcaaacccagtttggcccagcctggttgggtgactttgtgggagccacttaacagctctgggtccctgttttaccatcctgggagcaggagcccttgaaggcccttgaaggccctttctaagacaaggctcagcatcttgaagcccctttctaagacaaggctcagcatcttgatatttttgacagttcccaagttctgcaagtctcccaagtctggaggtatgtacccatctcaaatgttcccaagataaattcatccttcaggaaatggaaatggaaatggaaattgcttactaatgtgtgattccta

10 gttgtagccaccggatgtgctgaggccta

219518_s_at HG-U133A

tcgctgtgagtaccttcaccagaaattgtcccacattaaaggictcatcctggagtttgaggaaaagaacaggggcagctgaagttatcaagggaatttttgagcctctg cttagtgaaacacaaaggaacaaagcagctataaactaaatagaatgcaactatctgcttttcttatgctgaccactggagtccatggtggcaagtagagagctgctct 15 aggttcttgaggtttggttttcattattaatttttagggtatgggcactgtgcaaagactccatagctgtgcctaggagtctaggaaaagtgacagaggcttggcttttttacctt tagttcagccaagtcattttcaagtcctgag

219574 at HG-U133A

25 219598_s_at HG-U133A --

30 gctttcatcattgaactta

219615_s_at HG-U133A

gagcagggtcccaaggattgggagatctagtgtctgccctcctgccatgaactcaattgggccttttttggtgacctcatccaaggccatgatgtcaagggccatgtcc
ccaagcagaggtggagaaggggacactgaggtgagcaaaagcaggaaggggcatccactgcgggtgactggaggccgggcaggaagcaagtcatcagag
35 ccgctcagctccgttcactctctgccttctgccccactactgtggggccagtggggccagagcccacctccccaacatgtgaagacagtgatgggcacgtgccacac
ccccacttctctagccgtttgcagaggccgccacccagcacgggcctgaaaaggagcagcctcgtatttttctgtgaaatgtttaatgaaccatgttgttgctggttgtcct
ggcatcccgcacactgtatgtacatactggcaacgatgtcaaatgtaatt

219631_at HG-U133A

219634_at HG-U133A

219641 at HG-U133A

15

219654_at HG-U133A

gtacctacttctgtgattgtgactggggtccaagtgagctcaagaatctttatggtgtggctcattactcacagtataaaaccaatccagaatgaagagtgtggtgcttt ttctggtcgcgtggactgtgacagagatcactcgctattccttctacacattcagccttcttgaccacttgccatacttcattaaatgggccagatataattttttatcatcttat atcctgttggagttgctggtgaacttcttacaatatacgctgccttgccgtatgtgaagaaaacaggaatgtttcaataagacttcctaacaaatacaatgtctcttttgact 20 actattattttcttcttataaccatggcatcatatatacctttgtttcacaaactctattttcatatg

219667_s_at HG-U133A

ttattctcattatacctgcttcatatgggtatattactattaaaacagaataccatagagtaattgcattatttgaaaattctctcattttacaatgcacttcaccaatgaaacag
ctaatttccattttgaaaattaaaagaaaacagcacagagaagttaaatgcggtgtagcaaagttatggggtctgcttgaggggcactaacctcaacagattattcctcct

25 ctccttagaataaccatgaaaatacaaatttacttagcacatttttgctttttaagtagctggttcattttctgaatttctcacattcagagttcagtcattattgttacatcatgttt
gcagaaaccttgtcttatttagtgtctatttgcatataaccctgaaaacattattatttgaaaacttttctatatctcaaattaatacattttcataaccttgtattaagact
tgcaattttatcaatctat

219690_at HG-U133A

35 219734_at HG-U133A

40

219753_at HG-U133A

gcattcccccaggcttcagccctgggctctgaggggaaagagttgggcattgttttctaacctaacctttccctctggggtagagaagccgagagaccctgtcctccct aatgcactgtggcccagtccccttgcctttttcctgttctgtttggagtggagaagggcagcacctctgtgtttaatggaaatagcccatagtctcctggattt

219763 at HG-U133A

5 tacactccacatcctacagaaaagcattacccattttgcggccaagttcccgacgagaggctggacctcttcatcacattgacttacgccgttgcttttccagactgggc agaggggctgacttcgcagtgtgtgccaaagagccggtgtctgataatcccattttcctgcttatcacctgaactgtgccagtatcacttttagt

219788_at HG-U133A

15

219789_at HG-U133A

219793_at HG-U133A

219812_at HG-U133A

35 219820_at HG-U133A

219837_s_at HG-U133A

5 219846_at HG-U133A

ttaccacattgctcaggttgttctggaacttctgggctcaagcaattttcctgccttgggcctcccagtgctggaattataggtgtgagccagcatgcctggccctggaaa acttttgatgacttcccctactgtcatttggtgtgtccttaaagattgtcaactagttttaaactactttgtgtacaaaataattacctttttcataaatttgtttcaaaagatttttcatttt aagagattgatcattttgaggctgggtgcagtgggtgcaggtgaggccacggcaggtggatcatctgaggtcaggagtttgagaccagcctggccaacatgatgaaaccctgtctctattaaaaaatacaaaaattaggcatggtggcgggcacctgtagtcacggttactgcaga

10

219868_s_at HG-U133A

219869_s_at HG-U133A

ggatgataacgctctgcgatgccctcacaatttcatcgatggcctggcgattggggcttcctgcacttgtctctccttcagggactcagtacttccatagcaatcctatgt gaggagtttcccacagggttaggagactttgtgatcctactcaatgcagggatgagcactcgacaagccttgctattcaacttcctttctgcatgttcctgctatgttgggct agcttttggcattttggtgggcaacaatttcgctccaaatattatatttgcacttgctggaggcatgttcctctatatttctctggcagatatgtttccagaatgatatgct gaggagaaaaggtaactggaagaaaaaccgatttcaccttcttcatgattcagaatgctggaatgttaactggattcacagccattctactcattacttgtatg

219891 at HG-U133A

30 220000_at HG-U133A

220001_at HG-U133A

220007_at HG-U133A

aaacacagtcagactcttcccattgtcatctgattgcagagagaaagcacaccttatttccagggaaagctacaacaagcccaaggtcaaagtgtattattttttgtcttg ttgttgtctattttctcccaatttttttttgaaattcagaggctcatatctgaaatagaattttagttcctctttcctttccttaaaattggggaagtacagcccatgctgacattattttc aggctattcttagatatacaagttgttaggccaggtgca

5 220050_at HG-U133A

ggagcactgcagggagaacgcccacgacaagatccggcccatctccagcattggacaggtgcagagctacatggaacactactgcaacagctccacagaccg gcgggttctgctcatgttcctggacatctgttcagagctgaataagctctgccagcactttgaggccgtgcactctggcaccccagtcaccaacacctcctggagaaa tgcaaaaccctcgttagccaaagcaacgacttaagcagcctcagagcaaaataccctcatgatgtggtgaaccacctcagctgtgacgaggcccggaaccactac ggcggcgtggtcagcctcatccccctcatcctagacttaatgaaagaatggatcgcccactccgagaagttgccgcgaaggtgctgcagcacgggacgacttagc

220059_at HG-U133A

attacctatattctcctgatactgattaccaagtcattcacctgaacaccagaattagaattaaacattgtaccatacaatttcattatcttatcagaatgaaaccaattcaca gggaaactagagactacggctgtggtggtaacctgcagatatacacattcccatgcactgacataagttgaaaacacatagtactttctagatggaatttttttctttaggc 15 ctcaatgaaatacatttcccctatataattccaacagcagtttctctagttctaaattttaccaattcccaaaaaacctaagttttgctgaaatctgatttgaccaatttatcaaa tatgtcattttaattacctagctggaagttagagacatgaaatgtactagaggagcccttttccaatg

220118 at HG-U133A

25

10 t

220307_at HG-U133A

220338_at HG-U133A

220564_at HG-U133A

220653 at HG-U133A

220744 s at HG-U133A

15 220755_s_at HG-U133A

20 tatggaattigctgacacaataicttccgcctggtgctgggcatatcctaagaacttacaactticctgtattatcctgtgtgagcagctgtcaccttattgggggaa

220764_at HG-U133A ...

220768_s_at HG-U133A

30 aacattctctccgtgaaatcatggtacagtcactgcccagaggtactgaggaaaagcaatatgggttcggcagatggtggtggtaaaatgaatcttaaggagtgtggt aaatatgtgctccgcttttgttgcatcactatgtgaagtactgtgttgcagaagtggcaaaagcgcttatttttaaaaatgcaaaatatttgtacaatgtaactttatgcttcca aataataatgtatgttagacagcaagaaatgaatactttaaaaagtgatatatgttggagttataaagaaatacactaaggaggaggtagtaaatgtgaaccttgttgca gtgtataaggtggaagcctaaagaaatclcaccgaaacttactgctgaatgattacattctcccttaagcagaaaactttggatgtgccatgcaatggtgtctgtgtaatt attttgctctt

35

220796 x at HG-U133A

40

220798_x_at HG-U133A

aggcggaggccgcaggccgagggctacttccgcaagatgcaggcgcgc

220924_s_at HG-U133A

5 cctccaatcctctggctatttaaggttcaaaatcaagtgcctagggaaaattccaatggatgattttctgggagctatcttgtctaccttgaggttcctgaacaatgaattcccattaatgaggaggagctatcttgtcaactgtattaaaaccactgtcttgtcacctcattttgcattactgtcttccgtggatgtttcagttacaactgtaatgtatttataaaccactgtatttataaaccactgtaattattgtcaaatgtatttgtaaataggttgtataaatgtcaggtttggggtctagggttcaagtgtatatattcctgtaagtttctaactgtattttgtaaattgtcaaatgtactgtacaaatgtccaaaagtacctgtaca

10 220987_s_at HG-U133A

15 ctccgtggccaaaaagtaccat

220999_s_at HG-U133A

221004_s_at HG-U133A

221006_s_at HG-U133A

35

221011_s_at HG-U133A

221030_s_at HG-U133A

221188_s_at HG-U133A

221206_at HG-U133A

221234 s at HG-U133A

20

221239_s_at HG-U133A

aagttetgecactaatgaacccagaggggettecaggccaaatcctcaagagtteacctattcaagcccaaccccagacatggaggagctgcagccagtgtatgte
aatgtgggctctgtagatgtggatgtggtttattctcaggtctggagcatgcagccagaaagctcagcaaacatcaggacacttctggagaacaaggactccca
agtcatctactcttctgtgaagaaatcataacacttggaggaatcagaagggaagatcaacagcaaggatggggcatcattaagacttgctataaaaccttatgaaa
atgcttgaggcttatcacctgccacagccagaacgtgcctcaggaggcacctcctgtcatttttgtcctgatgatgtttcttctccaatatcttcttttacctatcattgaacactgcacactc

35 221253_s_at HG-U133A

221268 s at HG-U133A

gttgtgcctgtgtatttgaactacatacaggtatgttgttattaacagatatatttaacatttattactatgggagccatttcctaattgaattgcgtaattactagaccagaatgcatatgctactatacattgatttactgccgtgttttacactgccattacctttcatgttatccatgatgtgaacatgggaggcatttttaatggaccaaatttttagaaaaaattagt

221331_x_at HG-U133A

221486_at HG-U133A

221543_s_at HG-U133A

25 221555_x_at HG-U133A

30

221558_s_at HG-U133A

221581_s_at HG-U133A

221586_s_at HG-U133A

ccacagaaatccagcatggcaactcaaaatctgcctgagcaacatgtctctgaaagaagccaggctctgcagcagacatcagctacagatatatcttcaggatctat
tagtggagatatcattgatgagttaatgtcttctgacgtgtttcctctcttaaggctttctcctacccggcagatgactacaactttaatttagatgataacgaaggagtttgtg
atctgtttgatgtccagatactaaattattagattccatggaaacttgggactgttatctacctctaactgtgtaacattttagacttcttaataacctaaatatttaaaataatga
atgtaacaccttttgttcactgattctgaagtgttcttccctaatacttctttacttcacaaaacttcaaccataaaaacaaagggctctgattgctttaggggataagtgattta
5 atatccacaaacgtccccactccccaaaagtaactatatctggatttcaacttttcttaattggaatccttctgttttt

221601_s_at HG-U133A

gcagccccctgtagttgacaggtaagctgtaggcatgtagagcaattgtcccaatgccacttgcttcctttccaagccgtcgaacagactgtgggatttgcagagtgtttc
ttccatgtctttgaccacagggttgttgctgcccaggctctagatcacatggcatcaggctggggcagagggcatagctattgtctcgggcatccttcccagggttggggtctt

10 acacaaatagaaggctcttgctctgagttatgtgacatgcctcagccccatggactaagcaggggtctggtataaaaacactcctggaaacgcctttgccctgatcca
aatgttagcacttgctagtgaacgtctacttatctcaa

221602_s_at HG-U133A

20 221617_at HG-U133A

221642_at HG-U133A

221731_x_at HG-U133A

35 tttcagcaccgatggccatgtaaataagatgatttaatgttgatttaatcctgtatataaantaaaaagtncncaatgagtttngggcatatttaatgatgattatggagcct tagaggtctttaatcattggttcnggctgcttttatgtagtttaggctggaaatggtttcacttgctctttgactgtcagcaagactgaagatggctttcctggacagctagaa aacacaaaatcttgtaggtcattgcacctatctcagccataggtgcagtttgcttctacatgatgctaaaggctgcgaatgggatcctgatggaactaaggactccaatg tcgaactcttctttgctgcattcctttttcttcacttacaagaaaggcctgaatggaggacttttctgtaaccaggaacattttttaggggtcaaagtgctaataattaactcaa ccaggtctactttttaatggctttcataacactaactcataaggttaccgatcaatgcatttcatacggatatagacctagggctctggagggtgggg

221739 at HG-U133A

40

ccttctcatctccggtgaagctgaaggggcctgtgtccctgaaagggccagcacatcactggttttctaggagggactcttaagttttctacctgggctgacgttgccttgt ccggaggggcttgcangggtggctgaangccctggggcagagaacagagggtccagggccctcctggctccaacagcttctcagttccacttcctgctgagctc

ttctggactcaggatcgcagatccggggcacaaagagggtggggaacatggggggctatgctggggaaagcagccatgctcccccgacctccagccgagcatcc ttcatgagcctgcagaactgctttcctatgtttacc

221755_at HG-U133A

5 ggagcctcatggagtcaggtgccaacaagctgcaggaggaggtgctgatccaggagtggttcaccctggtcaacaagaagnacgctctcatcnnnanncannn ccngcnncnnnnnnncatggaggagcaggacttggagcgaaggttcgagctgctgagccgcaggagctgcgggccatgctgggccatcgagactggagaaaa cgtccgctcagcagcaccgagagcagctcctactggaggagctggtgtcgctggtgaaccagcggcgcagttgagccgggactgggacctggaccacaaggagcggatc gccctggaggaggacgagcgcctggagcgcggcctggaacagcgggcgcgcaagctgagccggcagttgagccggcgggagcgg

10 221761_at HG-U133A

15

221770 at HG-U133A

gggtgcataccatattcttggttcttaaaatctatcacttttcaccttanacttgatgtgtgaaaactataaaaacaatgtgtgaaacccanggggttctaaaatacaagca tagattttatcagggtgntttgtcaaagcaggttattcagtgattctccccaccattcttaagaacgttaaataatgctgttgtgttgtgttagctctgagtagaaaggaaaaagta aaacctctgtttggaggtaatattgggttgaattctgactgcccctttctagctggacctttaacaaatcacccaatctttttgtgtttctctaaagtcatttatacattaaatgta attatagcaactgtggggttctgttgagaattaagagctaacactatatatgtaaagtttccagtactagtcccagaatttagaatatgctcaacacaaagtaaacagcat

tatataagittatattittigtgagittataaagtactitgatatattctcattaaatctgtaaatcacctctataagt

221778_at HG-U133A

30 221802_s_at HG-U133A

35

221834_at HG-U133A

221858_at HG-U133A

5

221865 at HG-U133A

221902_at HG-U133A

20 221943_x_at HG-U133A

acagttccaatcagtgtgtctggttcatttcagttccttcactgccaaaccggggggcagggactgcttcagtttctctgccttctctttgtcagtgatgaccagggtgtaaag gtatctgctgcatcgaactttaaacttcacgttgtccttatttttcttg

- 221969 at HG-U133A

30

221980_at HG-U133A

221991_at HG-U133A

222062 at HG-U133A

222073_at HG-U133A

222108_at HG-U133A

tattcagccaaaattaccgttttagaccagaatgaatagactacactgataaaatgtactggataatgccacatcctatatggigttatagaaatagtgcaaggaaagta
catttgtttgcctgtcttttcattttgtacattcttcccattctgtattcttgtaccaaaagatctcattgaaaatttaaagtcatcataatttgttgccataaatatgtaagtgcaatac

caaaatgtctgagtaacttcttaaatccctgttctagcaaactaatattggttcatgtgcttgtgtatatgtaaatcttaaattatgtgaactattaaatagaccctactgtactgt
gctttggacatttgaattaatgtaaatatatgtaatctgtgacttgatattttgtttatttggctatttaaaancataaatctaaaatgtcttatgttatcagattatgctattttgtata
aagcacnnnnnnnncaannnnnnncaaannanaaantcactggaccgacgttttaacaacg

222146. s. at HG-U133A

20 gagaaggagcggaggatggccaacaatgcccgagagcgtctgcgggtccgtgacatcaacgaggctttcaaagagctcggccgcatggtgcagctccacctca agagtgacaagccccagaccaagctcctgatcctccaccaggcggtggccgtcatcctcagtctggagcagcaagtccgagaaaggaatctgaatccgaaagct gcgtgtctgaaaagaagggaggaaggaaggtgtcctcggagcctccccctctcncntngnnngncccanacccnggaangggagcactcgaatcacatg ggnacagatgtaaaagggtccnaagtngccacattgcnttcattaaaacaagagaccacttccttaacagctgtattatcttaaacccacataaacacttctccttaac ccccatttttgtaatataagacaagtctnagtagttatgaatcgnagacgcaagaggtttcagcattcccaattatcaaaaaa

25

222147_s_at HG-U133A

222150_s_at HG-U133A

40

222154_s_at HG-U133A

gggtttcacagtgcaatctctgccccacgagaatagaagtttccacagatgcagcagttctctcagtcccggctgtgacgttggtggcctgagctaggaggaaaaaga gcagttttcactcagttttggttccctgcccgaggtgctgacccaattcgctgccaaaagagtgtcaatcagaatatacaaatcccgtatggttgtgtcatcctcttaatc atttttactaattctaataatcagctctagcttgcttcataattttcatggctttgcttgatctgttgatgctttctctcatcaagactttgctgcattttagccaggcagtatttactcat

222163_s_at HG-U133A

10

222166_at HG-U133A

222203_s_at HG-U133A

gagtgtcaggaagatactttggggattgtaaagaggaagaactgttgcccaaagctatggatgaatctgttgcaagaaaactctgggatatcagtgaagtgatggttg

20 gcctgctaaaataggaacaaggagtaaaagagctgtttataaaactgcatatcagttatatctgtgatcaggaatggtgtggattgagaacttgttacttgaagaaaaa
gaattttgatattggaatagcctgctaagaggtacatgtgggtattttggagttactgaaaaattatttttgggataagagaatttcagcaaagagttttaaatatatagta
agtataatgaataataagtacaatgaaaaaatacaattatattgtaaaattataactgggcaagcatggatgacatattaatatttgtcagaattaagtgaccaaagtgtt
atcgagaggtttttcaagtatctttgggtttcatggccaaagtgttaactagttttactacaatgtttggtgtttgtgggaaattatctgcctggtgtgcacacaagtctta

25 22229_x_at HG-U133A

ttaatccctttgtgacttccaactgaaggaagagtcgcaaaaggcatttcaatgcaccttcctacattcacgggaagattgtcttcccctctttccaacgagctgaaacag aagtataacgggtgatccatgcccatccaaaaggatgatgaagttcaggttgtacgaggacactataaaggtcaacaaattggcaaaatagtcaaggtttacagga agaaatatgctatctacattgaacgggtgcagcgggaaaaggctaatggcacaactgtccacgtaggcattcaccccagcaaggtggttatcactaggctaaaact ggacaaagaccgcaaaaatatccgtgaacggaaagccaaatcttgccaagt

30

222237_s_at HG-U133A

222275_at HG-U133A

tgtgccaggctgaggttgggagaaattttgtccattctttagaaccaaaattggcaaccagagagtatttggatgttacacaaaatatttagtttcctttctagcctaaat
40 tgggttgtttatagcacccgtctctccatttgagaaaaatggttaggatgctggtgcagggatgaggccttattaaaacagagaaggtacccaaatggtggttcaaaca
caggctggctaataagctgtgaggtgacttaccaaaaaacaacaacaacaacaacaacaacaccttgaacttctgctttcaacttctactttatgctagattatttggtccaatcttcct
ggtctaacacctggctacatataacaacaacaacaacatctgcttgaatgtgtggaaaggtgatgattaattgccaggctgat

222282 at HG-U133A

gttgacagactcttgttttctggaggttaaccttgtctctggtccaaattangagtcaggcatttaggatgaggtnctgatggtgatggttcatagaattttgtccacaatctgttatg aaccctggactggtgagccttgttatctgtggccaacctagggaattttaatcttatggaattgaaaaaacaaggaacnatgtttgtgagggatttattaatttcttcccaga tttttctttttctcccctgttgtctctcatagtttttccagccctcctagtcacaatccccagaggcagctacttcaattcttctggctacctagttttactttactctg

5 222313_at HG-U133A

10

222335_at HG-U133A

222422 s at HG-U133B

ctacaacatgcccagttatgatgaagcggagaggaccaaggctgaagctactatccctttggttcctgggagagatgaggattttgtgggatgattttgatgat gctgaccagctgaggataggaatgaggattttcatgttaacttttttcatggcattcctctttaactggattgggtttttcctgtctttttgcctgaccacttcagctgcagga aggtatggggccatttcaggatttggtctctctctaattaaatggatcctgattgtcaggttttccacctatttccctggatattttgatggtcagtactggtggggtgttcc ttgttttaggctttctcctgtttctcagaggatttatcaattatgcaaaagttcggaagatgccagaaactttctcaaatctccccaggaccagagttcictttatttattaaagat gttttctggcaaaggccttcctgcat

222448_s_at HG-U133B

30

222465_at HG-U133B

35

222477_s_at HG-U133B

222492 at HG-U133B

5 222520_s_at HG-U133B

222619_at HG-U133B

222680 s at HG-U133B

25

222692_s_at HG-U133B

gcagtcttcttatgtgtcagctcattatttttgaaacatttgcctttaggctgttctttgaggtatcaatgaagtgattgaatttcaataccttaattcagtgcacataatactaatgt aacagcagatgaaaattgataaaacccaaaagagagtcatctaaatttgtagttcctatttctgtgggtttgcctggccatggttggagagggaatggtgttgatggtaa acacaggggtgtttggggatcaaggagcctagattctcccctggatctgtcactaacttgctgcgtgacctgaacacgtcactttacctctctgtgcctcagttttcccatgc

30 atgaaaaat

222698_s_at HG-U133B -

222862_s_at HG-U133B

40 ttacacatctctcaactggcgagctcctgcgtgaggaactggcatcagaatctgaaagaagcaaattgatcagagacattatggaacgtggagacctggtgccctca ggcatcgttttggagctcctgaaggaggccatggtggccagcctcggggacaccaggggcttcctgattgacggclatcctcgggaggtgaagcaaggggaagag ttcggacgcaggattggagacccacagttggtgatctgtatggactgctcggcagacaccatgaccaaccgccttctccaaaggagccggagcagcctgctgtgg acgacaccaccaagaccatcgccaagcgctagaagcctactaccgagcgtccatccccgtgatcgcctactacgagacaaaaacacagctacaaagataaa tgcagaqqgaacaccagaggacgtttttcttcaactctgcacagctattgactctat

222915_s_at HG-U133B

222916_s_at HG-U133B

15 222955 s at HG-U133B

20

222976_s_at HG-U133B

222977_at HG-U133B

222979_s_at HG-U133B ·

40

222982_x_at HG-U133B

aaaatgtgatctagtgtaatggaagacctttgagaacctgggtgtattaactttgtgtatatagtgtaaatatccccactgtactgttagaggccaacaattctagtatggctt gttggcaaagagtgctacaccgtttcaatgaaa

222996_s_at HG-U133B

5 cattatgaccccggcaggtgtgttcctggccgagagcgcgctgcacatggcgggcctggctgagtaccccatgcagggagagagtggcctctgccatcagctccggc aagaagaagcggaaacgctgcggcatgtgcgccctgccggcggcgcatcaactgcgagcagtgcagcagttgtaggaatcgaaagactggccatcagatttg caaattcagaaaatgtgaggaactcaaaaagaagccttccgctgctgtgagaaggtgatgcttccgacgggagccgccttccggtggtttcagtgacggcggg aacccaaagctgccctctccgtgcaatgtcactgctcgtgtggtctccagcaagggattcgggcgaagacaaacggatgcacccgtctttagaaccaaaaatattctc tcacagatttcattcctgtttttatatatattttttgttgtcgttttaacatctccacgtc

10

223036_at HG-U133B

ccataggccatacatgttactgtaatcagtcagttataaaatcatggttttaaatacttaattgagctactagtttctctattgtcccagggagatattagacctctctttttctga agctaagcttcagccaatcctccttgttttatatcctaatttcctttcttacttcaatctagaattctccagtaggtaccatctctggaaaaaagctgggtctcatgtttgagaca agttcccaggtactattgaagta

15

223044_at HG-U133B

223054_at HG-U133B

223226_x_at HG-U133B

35 223246_s_at HG-U133B

gaaattcagaggcgcaggtccaaataagaaagtggcaaaggcgagtgcagctttagctgccttggagaaactgttttctggacccaatgcggcaaataataagaa aaagaagattatccctcaggcaaagggcgttgtgaatacagctgtgtctgcagcagtccaagctgttcggggcagagggaagaggaactctaacaaggggagctttt gttggggcgacagctgctcctggctacatagctccaggctatggaacaccatatggttacagcacagctgcccctgcctatggtttacccaagaga

40 223253_at HG-U133B

223276_at HG-U133B

223280 x at HG-U133B

15 223287_s_at HG-U133B

aatgittgcttacttccgacgcaacgcggccacgtggaagaatgcagtgcgtcataatcttagtcttcacaagtgttttgtgcgagtagaaaacgttaaaggggcagtat
ggacagtggatgaagtagaattccaaaaacgaaggccacaaaagatcagtggtaacccttcccttattaaaaacatgcagagcagccacgcctactgcacactc
tcaatgcagctttacaggcttcaatggctgagaatagtatacctctatacactaccgcttccatgggaaatcccactctgggcaacttagccagcgcaatacgggaag
agctgaacggggcaatggagcataccaacagcaacgagagtgacagcagtccaggcagatctcctatgcaagccgtgcatcctgtacacgtcaaagaagagcc
cctcgatccagagggaagctgaagggcccctgtccttagtgacaacagccaaccacagtccagattttgaccatgacagagattacgaagatgaaccagtaaacga
ggacatggagtgactatcgggggggc

223314_at HG-U133B

223318_s_at HG-U133B

223321_s_at HG-U133B

40 223382_s_at HG-U133B

223385 at HG-U133B

223391_at HG-U133B

15

223401 at HG-U133B

223422_s_at HG-U133B

30 223449_at HG-U133B

35

223462_at HG-U133B

223467_at HG-U133B .

223469_at HG-U133B

223471_at HG-U133B

20 -

223474_at HG-U133B

25

223482_at HG-U133B

223498_at HG-U133B

40 223514_at HG-U133B

223522_at HG-U133B

5 ggaggctgagcgtagtcgtggatagaaacctttccctaccgcacggttacacacatggcatgggactcctggctgtagctcactcgggtctactgaagaccaagttgg tttttagaaatctatttaaaatatctatcatgtatctatttactgtgttttctgaatacgcaagtgtaaatagtataatttgcagtgcaaaatccttggcaataactttgtgtattatg tttaaaaacactggaaaccgtgaccaccatggactgcccttccccictgaggcaattattacatgtaggactctgaactttaaaccttcagcgtgactgaagcagcagc ctgcacatgtggatggtcatcagtgcctcgccaagagatacctggccttcatccaaagggaccctgctgcacaagtcctcaaggcagcaccaggcagcactgtggctcctt cgcactgagtatgttggactctgccatagactgaccctcttgtctggctgctgcagtttgtctgtaatgccctgacatgttgcattctccccatttggataaa

10

223595_at HG-U133B

223703 at HG-U133B.

gacaacaatcagctgggggacgaccttgtgttgccagggttacccagactgcataccttaaccctcaacaagaaccgaatcactgatttggagaacctgctggatca

20 cttggcagaagtgacaccagctctggagtacctcagtctgctgggcaacgtggcctgtcccaacgagctggtcagcttggaaaaggatgaggaagactaccagag

atacagatgctttgttctgtacaagctgcccaacttgaaatttctggatgcccagaaagtaaccagacaagaacgagaggaggcgttggtcagaggaggcttcatgaa

ggtggtgaagcccaaggcttctagtgaggacgttgccagctccccggagcgccactacacgcccttgccttctgcttccagggaactcaccagtcaccaaggtgtcct

ggggaagtgtcgctacgtttactatgggaaaaactcagagggcaacaggtttatccgagatgaccagctctgaagccaacttctgtataccttcac

25 223712_at HG-U133B

30 ttgcttgatatgtagttgccactc

223785_at HG-U133B

223828_s_at HG-U133B

223839_s_at HG-U133B

223894_s_at HG-U133B

15 223939 at HG-U133B

accetateacgteatgeggaatgtgaggategetteacgcetggggagttggaageagtateagtgeacteaggtegteateaacteettttacattgtgacaeggeettt ggeetttetgaacagtgteateaaccetgtettetattttettttgggagateactteagggacatgetgatgaateaactgagacaeaactteaaateeettacateetttag eagatgggeteatgaacteetacttt

20 223981_at HG-U133B

25

223982_s_at HG-U133B

gtctgtttagaagatcaaccacattcaataaggaattgtggggttcgacatgagttaactttgaaatacgtatgaattctggagaatcctgaaaaagacggtgcttcaac cagcttgcatagcacagagaatattcttggttacagaattcatatgggaactaggctttaagatgttaataattagctaagctttagtaacccttactgtgctagtagatttta gtagatattggtgttatattgtttgatgtttgaaaatatattaatatatgtgccgaacaagaaaccgaaagctatattgtactgtgtattttactttagtcctcataatcatgttga 30 atttatgtgatcattgattttatttcatatggaaaagctaatttcttcttaaatttaccttaatattctcactagctatgttctccaatccacactgccttttattgt

224044_at HG-U133B

40 224049_at HG-U133B

WO 03/039443 - -- PCT/EP02/12303

224076 s at HG-U133B

10 224221_s_at HG-U133B

224254_x_at HG-U133B

224324 at HG-U133B

cgtcacatggcaatgagaaacttgggaaccatggcctatgaagcccctgacaaggtgagaaagtataagaaaattgtcctcgacctgctggtgtatggactgtatga 25 ccctgtgaatttggaagtcatccatgagggtatgaagactctgaccgtcgttctgggcaagatccaggggaaaggtttg

224356_x_at HG-U133B

224389_s_at HG-U133B

catcccagcatgtaccttgtttgattcttctcctgctgtctgctttgctgttcagcttgtgtgattccatttgacacttaatctttctccatcctgtgctccaaaaacatactgatgcctgatttaaggaatcaggtcttcagagaggaatgaagaaggctgtactgccagatataagggcactgcctggcatag

224404_s_at HG-U133B

35

224405_at HG-U133B

224406_s_at HG-U133B

10 224407_s_at HG-U133B

15

224435_at HG-U133B

20

224482_s_at HG-U133B

25 ttttgccccaggaggctctgtctggaaacaggcttagctttagtgctgggg

224516_s_at HG-U133B

224520_s_at HG-U133B

40 224553_s_at HG-U133B

ccagttcgggtttctcactgtgttccctgggaacaagacccacaacgctgtgtgcgtcccagggtccccggcggcagagccgcttgggtggctgaccgtcgtcctcctg gccgtggccgctgcgtcctcctcctgacctcggcccagcttggactgcacatctggcagctgag

224559_at HG-U133B

tgttaaaagcaaggtctccccacaagcaacttctctgccacatcgccacccgtgccttttgatctagcacagacccttcaccctcacctcgatgcagccagtagcttg
gatccttgtgggcatgatccataatcggtttcaaggtaacgatggtgtcgaggtctttggtgggttgaactatgttagaaaaggccattaatttgcctgcaaattgttaacag
aagggtattaaaaccacagctaagtagctctattataatacttatccagtgactaaaaccaacttaaaccagtaagtggagaaataacatgttcaagaactgtaatgct
gggtgggaacatgtaacttgtagactggagaagataggcatttgagtggctgagagggcttttggtgggaatgcaaaaattctctgctaagactttttcaggtgaacat
aacagacttggccaagctagcatcttagcggaagctgatctccaatgctcttcagtagggtcatgaaggtttttcttttcctgagaaaacaacacgtattgttttctcaggttt

224570_s_at HG-U133B

15 224609_at HG-U133B

224664_at HG-U133B

224681 at HG-U133B

gcggcgctgttggcgacagcagcgctgtgattcgcgtagcaggggagttgtttgaaacaccttcctgagtagtccggccttgtcaatgagtgcttgttttcctttaaacagt

30 ctgacatatttactcgtcactttcaaaccagaagcatganaggaaggagatattgtggggtccgtttaactcgatagaaagcgcagggggatggccccggcgcgg
gctcttgacccgctcagcgctgaccccaccgccctggccgaggcacttggccttgctgagctggacttcctcctcctcctcctcctatgaccgggtgaattagaacgttttt
aaagacacccccttccaaattctgtaacacattgtaattggagaaggaaaggaaactctgcaaggctaaactgtcattcacaacttggctacacanntagactctagtca
gttttgtctccagaaccttaggcttttgta

35 224710_at HG-U133B

224724_at HG-U133B

gagatttccttggaaatttctcccaagggcgaaagtcattggaatttttaaatcataggggaaaagcagtcctgttctaaatcctcttattcttttggtttgtcacaaagaagg aactaagaagcaggacagaggcgaaacggggagacggaaacagtgcagagacgtttgacaatgagtcagtagcacaaaagagatgacatttacctagcacta taaaccctggttgcctctgaagaaactgccttcattgtatatatgtgactatttacatgtaatcaacatgggaacttttaggggaacctaataagaaatcccaattttcagga gtggtggtgtcaataaacgctctgtggccagtg

5

224727 at HG-U133B

gatectggecactatgecagttetgacetegeatececetacecegageceatgeagtetgggaacatgecgettetetecagectetgtgeetttgttecaggtggtete
accetetgtecetggetgggetaggtggteetgtecaggeteetgeagegeeeeeettagtgacatggactaggatgeageeeettetgtgteeeettgagggta
ceetgggteeeeteateaggggeagaggeatgaaagagteggggetggatggeenggggettetgggeeegaeggeetagtgeageeeetggggtegtggtttgae
10 atttgtetgeetggtgeaaacaaggaateettgeetttaaggtgacaggeeeteeaaggettecagaettgaaggaaaaggittaagaaagaaaaaaaaacaaa
agttagtggagteaaageeeagaeactgtaaatagaaceeete

224735_at HG-U133B

gctcaccatgcagctgatgccaaagttgtggtgtccagtgtgcagcagcctgggagccactgccaccttcagaggggttccttgctgagacccacattgcttcacctg

gccccaccatggctgcttgcctggcccaaacctagcgttctgtgccatgctagagcttgagctgttgctcttcttcagggggaggaaatagggtggagggaagggt

cttgctcctaagtgttgctgctgtggcttttttgccttctccaaagacgcactgccaggtcccaagcttcagactgctgtgctttagtaagcaagtgaggaaggctgggtttgg

agcccacctactctctggcagcatcagcatcctactcctggcaacatcaggccaacgtccaccccagcctcacattgccagatgttggcagaagggctaatattgac

cgtcttgactggaggcttcaaagccactgggatgtcctccaggaacctgggtcccatgaccagctccccgtctccataggggtaggcatttcactggtttat

20 224739_at HG-U133B

224764_at HG-U133B

224772 at HG-U133B

40

224794_s at HG-U133B

WO 03/039443 PCT/EP02/12303 - - -

ctaaggactcagctgagggncccctctgcccccttctacctccacctcagcaccctcccccagcttgatgtttgggtctccccagcaccctcctcctggccggtgcaa agtacagg

224804_s_at HG-U133B

10

224811_at HG-U133B

ggagatggtgagaagccgggttttctctatgctaaatgtgtctactaagagcagcacttcctactagctaagcacaatcatagccccaccgtgatgagctgctagtctga ataacattccctgacttagggaaaggcacacaaaaacatataaagaatatgtctattttcatatgtgtgatactgacagagccatggtattcctaaaatataggtttctcttt tttcttgtattcttagcaaattgcatttattcactacattacaaaccatcactgatgtatccaaaatagcacacatagttcagtatgaaaataagagaataaaatctgttataa 15 gcaagtgatttaggtattttcttttgtgtttatgcattatctgactatattaaaacctgtttttctatttaccttctatcagttttctaccaattatgttttttca

224823_at HG-U133B

224833 at HG-U133B

30

224837_at HG-U133B

224838_at HG-U133B

224839 s at HG-U133B

cacticaggatgactatectecetecagtggagaagetgaaaacggtgetgeagaaggtgaaagacttecacateaacttectggagaagtaegegtgaggaegee
tgageeeeagegggagaeetgteettgetetteeteeeaatgeeegteaggetgaaetegeeteeeegtgaetetgeetegggeetegeagaggeegetggteaett
egteateattttgeeeetggagaaegtetttetttgtgeettgatgttgagagegeetetettttgageaaaeaageattetatatgeaaeeagagtagaggggaeetgeteag
5 caggtgtgaeeagggttetetgaatetgttattgtttttgettetggaaagtteatttggggtttaeaaeaaetaggatgtttggggtgagatgttteagatetggagaaatgag
eaggtgtegggaaatgtgtgaettaaeegtggtgagggetggaaateeaaaeteaeeneeatgatetggaaaataaageeettageg

224847 at HG-U133B

atatagccagtttatctatacccttcctatctgaggaggagaatagaaaagtagggtaaatatgtaacgtaaaatatgtcattcaaggaccaccaaaactttaagtacc

10 ctatcattaaaaatctggttttaaaagtagctcaagtaagggatgctttgtgacccagggtttctgaagtcagatagccattcttacctgccccttactctgacttattgggaa

agggagaactgcagtggtgtttctgttgcagtggcaaaggtaacatgtcagaaaattcagagggttgcataccaataatcctttggaaactggatgtcttactgggtgct

agaatgaaaatgtaggtatttattgtcagatgatgaagttcattgttttttcaaaattggtgttgaaatatcactgtccaatgtgttcacttat

224848_at HG-U133B

20

224872_at HG-U133B

224918_x_at HG-U133B

35 224928_at HG-U133B

tattgggaagctacagggactacgtaatacctgcttatcacataggaaaattatgtccatgattctgagctcccttcttcaaaagtttcctcctgggtgttctatgttctctcttta tcctgaaatacatttattaggttgtgaggtatgttgaagaagtagaagccaggggtatgctttcagcatttattgcaaccaaaagttaaccccatcacggttaacgagcat ctttggtctcttgtggaatttgaactaaaactatgagccttattcaatatctataattctatgattttttaaattatgggaaattaatgaaagatgtttacatgaataatgtttgccc ttactgtgttatgaatgagttttttgtagtgtgtctgggtgcatgatgca

40

224932_at HG-U133B

gaccacggccgcaggggtagccgtgggctcggctgtgggacacgtcatgggcagcgccttgaccggagccttcagcgggggagctcggagccctcccagcct gctgtccagcaggncccccaccccgctgcacctgcacagtgggccctgccagagtcatgagaccttcagagtgac

ctgtccctgtgtgagggcttcagcgaggccctgaagcagtgcaagtactaccatggtctgagctccctgccctgaagaggtcggtgcagactcggggggccagtcctgccacccctctacccctcgccgacagcagaccacaacaccagattgtacccag

224935_at HG-U133B

10 224967_at HG-U133B

15 224970_at HG-U133B

20 aataaaaagtatataatgcccatttttatatgcacgttt

224975_at HG-U133B

224976_at HG-U133B

224994 at HG-U133B

225003 at HG-U133B

225010_at HG-U133B

225014 at HG-U133B

15

225019_at HG-U133B

225025_at HG-U133B

30 225051_at HG-U133B

35 atctttagactacacaggcaataatcaagtctgctgttttggcctttcgtagtagaa

225055_at HG-U133B

225064_at HG-U133B

5

225065_x_at HG-U133B

10 gccaagttgtagctttgtcccttgccatcatgcccaacaagaggttct

225073 at HG-U133B

225080_at HG-U133B

25 225085_at HG-U133B

30

225129_at HG-U133B -

cagcccgcgatattgtgcagttcgttccctttcgagagttccgcaacgcagcaaaagagaccttggccaaagctgtgctggcggagctgccccaacaagttgtgcagt atttcaagcataaaaacctgccccccaccaactcggagcccgcctgagctccagtgcccagcagcagcatgtcagctgagcctcctgccctcccccaggaacatg cacgctcactctgcttccttgtgggtggcctttttttaccgatccccttttttattttttacaaccggacctccacccccaacttcctccagcccagctgggcttcctttgttggagt

225136_at HG-U133B

gcaggttcagtagttgaggagttgagtttagtagganttgttttcagtataaattagataacatgtggaggtcacagcattttggaaattgagtglccccaagtgagctttgttt ataaactttcnaaatgtcggaagtggacaggtttgttaaatcttgtctgccagcacccttttcttcctttgttccttttgttcctctctgtgttattnnntgcggcagccagtccttcata ctagatagagttcagataaagcaaacgtttggcaaaaacatactgtttgacctcctcccctctgcttatgaaggggtagcatgattctgtgttttaaagcagtgatgtttcagctgaaatgcactcgctgtaagctctaggctgaagtgcatggaaactgttacgcttctcattttatgtgatctcctaattggtatgtagca

225144_at HG-U133B

225175_s_at HG-U133B

225230_at HG-U133B

20 225246 at HG-U133B

225250 at HG-U133B

225270 at HG-U133B

40 225277 at HG-U133B

ctccacgttgtcagcgctcaggaatgtgctccggcagagtgctgaagccataatccccaaccatttcccttggntgacgcccaggtactcagctggcccactccacagccaggactggccttggcccttcaccgttgatgctttcagcagtgtttcagaagtggccatcgagaggtctggatggttttatagcaactttgctgtgattccgtttgt

225285 at HG-U133B

5 aacctgttctcttgtatctgaatctgattgcaattactattgtactgatagactccagccattgcaagtctcagatatcttagctgtgtagtgattcttgaaattctttttaagaaaa attgagtagaaagaaataaaccctttgtaaatgaggcttggcttttgtgaaagatcatccgcaggctatgttaaaaggattttagctcnctaaaagtgtaataatggaaat gtggaaaatatcgtaggtaaaggaaactacctcatgctctgaaggttttgtagaagcacaattaaacatctaaaatggctttgttacaccagagccatctggtgtgaag aactctatatttgtatgttgagagggcatggaataattgtattttgctggcaatagacacattctttattatttgcagattcctcatca

10 225305_at HG-U133B

15

225306_s_at HG-U133B

20 225314_at HG-U133B

25 ctcagccttcagcttcctaaattctgtgt

225326 at HG-U133B

gaataactgccatacatgttttcttggcatcttcatttacagaaataacatacagcatctaaagcaagttctgtccctcttaatgtgtatgacatctttttaagtagctgatcag
caataatagccaccagttgactaggtcagcctgatatactagtggatcactgtccaagataaaaaggtaaccccaagtattgcaaaatttccctcaatttctttatgtaac
30 attgaagaaatgttgttaccagctaagatgataaattggaaaacagtcttgttaaggtgaaaggggtccttggtgatggatcattatttcaaaaaagaaaaaatcatgt

225327_at HG-U133B

gaaaaggaatagtggttcctcttgatgtatagtatgcctgtattatagttttt

225330_at HG-U133B

225331_at HG-U133B

agagagtgatgaacctcaccattctaagaatgaaaggccagcacggccaccaccacctatcatgacagatggtgaagatggggattacactcattttacaaaccag cagagttccacacggcatttctcaaaatcagagtcctctcataaaggttttcattacaaacattaaaaacctaggaatctgccttgaaaatggactcactatagcaaata 5 ttactgggtgatacagaatgaattctacacttactttttttctcctgtgtttgcattcctgggatttatcctcaagtgcatttctgaccataagtaattttaattcatttcaaatgttttgg ttattcatgatcacttgggcagtataagaaaatgtagcttctgaatattggccacctctatgctgcatatacttcttgggatatagtatctaagacctttgtaaactgccattttgt taggtatggagtttggtatctagggagtaggccttatttagcaattca

225344_at HG-U133B

15

225386 s at HG-U133B

ggatggtaccagcagctacaaagattttgcaatgagcaaaaataatcgctttacaagtgctggccaagcatctaagaatataatccagccaccctcctgtgttttgcatt attataatgttccattgtgtgtcacagaagagaccttcacaaagttgtgtaatgaccatgaagttcttacattcatcaaatataaagtgtttgatgcaaaaccttcagccaa aacactttctgggctattagaatgggagtgcaaaactgatgcagtagaagcccttacggcactgaatcactatcagataagagtgccgaatggttccaatccct

20

225406_at HG-U133B

225426_at HG-U133B

35 225452 at HG-U133B

225469 at HG-U133B

5 225510 at HG-U133B

10

225512_at HG-U133B

225547_at HG-U133B

225553_at HG-U133B ...

25 gtctgtggtgctaccagtatagcttggaagatggttctgaattaatacctcagaatgatatcaaaagtaaaagagtggttctatngctaaatatttgactagctttcttata acaattttactttgaaattcaaagttccaaagctaaatgtctaaaagaagtaactgcagcttgttctgctgattttggaaaatagtattaaccatgtaagatctttggggttgg agtgaaggtcttatctgcattaattttgttaatgcacattgtagatgtggagaacatcttgacctgcataaggattgcgtctcattttattgtgtagtgctttttcgaaatatttacat ttctttggttcccatgttcatgtattctggagaagtaaaatttcttgattactgggcagaccctaaaactactaagagaaacataacatgtagttagctgctcatggtttg ttcaaatctaagctaaccttaatggtgctgtgtccgctgtccacagaaaaacgcccttaagtagccctaccttactccttagagcttattt

30

225563_at HG-U133B

225565_at HG-U133B

225592 at HG-U133B

225624_at HG-U133B

gactgaggacagtagcacacggaatggtggatcgtacatttgcacccagagctactaaacgctcagtgaccccagagaccattaatttcccngagtgaaggggat
ggggtagagctaattggaatttttattatccaggactcatcctaagaagaatgttggcctctcttcatccctggcttagccgtcaggtagaacgcttactcacctgacacc
gacttcttagagaaagcgagtcttttttgaatggaggagcgatggtaaccccactaggggggcgcccatgatcggctcccagtgcacccccttaagggtaagcaggccn
catatctagagtctgatagtctgtgtgtncataaggtctagaagtctgtggaaacgccctgaaacntgtagtattatcttaactaccctcttatgttaaggtttacataatagg
atttttaaacaaatgtgtttaatttttaagatctcttgtattaaaattttcttttggaataagctgtggaaattttgttacaacctggttgagatcaacctctttacaatgacac

15 225629_s_at HG-U133B

20

225635_s_at HG-U133B

225640_at HG-U133B

225653 at HG-U133B

gacagegggtggaagggcccgtgtgctggatgggggtgtcgcctcctggatggcacaccctcccgaggacatccagacaggctgtgtcaccctccagcactttatgt
gcctgctctgaggtgtcctgaacacacaggcaggcctctccttcatcacaggccggggattccttttgtgtttctgtataacatcgatgacgagctgaagctgtgtcactt
cactgccctcttttggaatttcttcattgtgctgactgattctattaggggctaacaataaaggcagtctacccactactatcatgcttgggaaacaagcgtcagcttgtacat
atgacaagaggggaccctgaatacaccctctcttcatcagcccaagccttactgag

225660_at HG-U133B

225670_at HG-U133B

225700_at HG-U133B

ggtgcatgatcttcatttacatagaatacttgggtctcagaattgatgcaacataagcaggtttttttggtgacttacaagagcaatagnttgaagctatctnatttaagccnt ctcataatgcataatcatgagtagntttgaaanttgcaacctgtgaggtagagcataaactcaagaaaatagccttgaacttgcagacntttgacacaagttctccaca aagtgtgaagagagcccaaggcattcctgantggtcaantgggagagcctaactttcantgttttcttcngtacaaagagtatccaaaaggctaagnttttgtattccacta ctttcagttcaataaaacctagagttgtttcatctgcgcctaaagtgtatggcacaattttcttaagaattaggggaaccaggtgcctacagttaaagg

225713_at HG-U133B

20 225735_at HG-U133B

25

225772_s_at HG-U133B

225776_at HG-U133B

40 225782 at HG-U133B

gaactgagtcaatatggcaaggtgtatgtgatctgtgggagttatgccatttaacataggaagtgcatgggactttccctctctgcactccagctcttactgtaccattaga agatgcagaattctgttggtgtgcaaaaagtatagccttacattcaagcagaatggatctgaagaaagcagcaatatctgttactagagaacattcccatgtgtttaaac tcttcacttcttagatgcatttaaattcttaatgcaaatgacgtagcaatttgaaaacttctccgtattacttgtgtttaaaatgtcttgctttaaatacaaaacaaatggtaaag gggattatcttttgtttagatggttaaatattatttttgccttagatagctttgtaataatttttctccagacagttcaacacttttga

225790_at HG-U133B

gaagctcaagttcatactcaacataatcttctgtgtgacaaaggacaagccatgtagcctctctgtgcctatttcttcatgcataaactggactcataatatttgtaaaat gtattgatactctcagggcaaattcactatattgctatacagttgagatcagtgttgtaaaattaaactgatctggttctaattgcctcaaaggccaaagcccaggcatttga gtattgaaaagaagaagaagaagaagaggaggctgacttagctgattggtatggaaacagttgggccaagagccagaatttccctttgtagcaacacggctagttttactttgagaa gctctgctcagctgctttataacattaagtctggcggaatggatgtcactgtgcacaataaagttttcacaagtataaacaatggtgatgtaagtcaacattgctgtagcca gg

225792_at HG-U133B

15 225803_at HG-U133B

cacgtgctcagcgaagaccggctgctgtggaagaaactctgccagtaccacttctccgagcggnagatccgcaaacgattaattctgtcagacaaagggcagctg gattggaagaagatgtatttcaaacttgtccgatgttacccaaggaaagagcagtatggagatacccttcagctctgcaaacactgtcacatcctttcctggaagggcactgaccatccgtgcactgccaataacccaggagctgctccgtttcactttcaccccaggactttatcaacttgttcaagttctgaatcccagcacatgacaacacttcagaagggtccccctg

20

225804_at HG-U133B

agctctgccaagcacttgataggccttgacacttgtgccctgggatgcctctggcggaatcaggaggntctggaaggactctggctatattctgcaaatgtggctcatgcccttaccgtggctcggcgttgtggtgcctgagggacagccggccactgcccagtactggtcagcttttcaacactattccctttgacctactggccatcttcctcacacgccctcagatatcaacgggcacaaataagaccaactcaatttccacttgaatttacaaccaaaagcctgctgagttgattacagctgggccaatacagtacgagggcgacaaatacagtacgaggcacaaatacagatgtgggttgattctggaattggaaaagcttttgcttgtatggatacagcaaatccagatgtctctgaacaaagcaacaaattaaagcaacgacacttaacaaggtgggttgtttcaaaggcagaagtctgcattttgagcaaaaggtggcttcccagctctaacaaggtaact

225889 at HG-U133B

35 225897_at HG-U133B

40 atgaaatttgacgtatcttttcatccaa

225902_at HG-U133B

5 225917_at HG-U133B

10 agagtggtgtctgtataagtgttacctgtagtggggttttgtccagcaagcctgaaat

225927_at HG-U133B

225959 s at HG-U133B

25 226005_at HG-U133B

ccctaaacttgtgccaaccatcaacaacatctccatagatcttatggattgtagaactgttggctgtttcctaaatttattccaagttctcgtagaggcatatagatttcagtct gtgcttgtatgggatagatgatctgagtggctttctggcctcttttttgagtttaaaatccatatgaggttgacntgtcatactaaggtaacatgtttgtgaggttattccactagt actgtgatcacgtgggtgtcagtatctttaacggccttcattcttggttgtgagattttatttgatatgcccactcaccctcgacgaatctgcccgctttgggctgtggtgctgt gtatctttgcccgtctggtctccagttggtggaattaccttttttgtactgccacttctcagcatctttgaaatttgacataatgttgcttcatttcagttttttagttctgtaatttgttga

226008 at HG-U133B

40 226013 at HG-U133B

ggctctattttctctattgggaattacaggaccattttgattcttagaatgtaaaaagcatatcgctaagtaaatcatcctggaggtcccaagtagctctatgcctgcaatcat ggagacacaggcagacagataagcttcatggggaaggcatggggcatcctctgtcttgggatttgtatccatggtggtctggtccctgccttttaatcngtcctctacgctt gggcttttctgttaccaaacagcactatcccaggaactattgtctgcctgggaacactcagtagggagacactttggagacaggaggtgatgaacctttttatgtgcagc tggtatgatagaaggaaattgggaaaacttgtatgctaggcacttttgtccagagcctgctgtcccatggagaaaaa

226014_at HG-U133B

226043 at HG-U133B

.

226060 at HG-U133B

15 cattto

226063 at HG-U133B

226066 at HG-U133B

30

226101_at HG-U133B

226120_at HG-U133B

tttgctatgctctgattgttccttagaccacatatgttcttatgaagcagcattatgcaaggggaaaaaagcnctatgtctgtgtatgtatgtatatgtgtaatacgtatatttta acaaacctgtccttgatattagttaaggtgacacataagggtgacacagaatgtgtaatgcaaatttcatagtaatagtaactttataaaatacattataaaatacagga tttaaacctttctaaatagatcctgaaactgtctctcacattatatagtagatgttgttataaatgttacaaaacattttggtgaatttcctcaatgttttataaatgtacatttttaa gtcatttataagctgactcttaagccatgtgaatctgccattaaaactgcacctttaagccaggtgggaggtggaggatgccataggagtctgaaatctgccattaaaactgcacctttaagccaggtgggaggtggaggattataaatagagactttccttaagactttaaaaatgtatttaaaactattttttataaatactttgtgatttcctattaagctt

226122 at HG-U133B

226147_s_at HG-U133B

226156 at HG-U133B

25

226165_at HG-U133B · · ·

226188_at HG-U133B

226190_at HG-U133B

40 gaacactgaaatctatggactctaaaatggacttcatttaaagaaacccacggaccattaatggacaaaaacatgagtcaatatgtattgtggcattcaaatcctagca ctctgggagagcatcaagtaccacgtttttgaagaccatggcctatcatcattatgcattcaagatttgagtttgaataacctcatcaagacttagatcttcttcagaagctt caagtctcatctgcattaaagctctccattgaaccctctcacaaaagtacaagcttaaaggggctaaaatccattaatacattccattttatatcccttcctctgacttctcttc aatttccttggcctctagggtccttcatattgcttacgttcctttagacta

226210 s at HG-U133B

5

226236_at HG-U133B

cgagaatcgaggcactcgctggcgtacccatgtatcgaaatgagttcacggcctggtaccggcggatgtcggtggtctacgggatcggcacctggtctgtgttgggctcactgctttactatagccggacaatggcgaagtcgtcagnnnaccaaaaggatggctcagcaagtgaagtacccagtgaactctctgaacgcccaaaaggattttatgtggaaacagttgtcacatataaagaagattttgttccaaatacagaaaagatcctcaactattggaaatcatggactggtggccctggtacagaaccatgactggct

10 gctgaattct

226244_at HG-U133B

226247_at HG-U133B

20 teatgaacacaccegagaaatettaaatagacacnttgcaatatttaagaacetaatgetgtttaattttggtacagettecacattgcatgtteactttagtatttgcaatttg atatattteatggtggcaaaatattagetetgtttgggacattttaaaatagaacetateettgttegatagcataggaaaatgttetggtgattgtcagggteteetaatatttat etcaattettttataagtetatggaaattatttaattatttaaaaegtacacacttttettgtaaatatgtcacatetgggtcaaaaaaaattaetttgaataeettaatatttgetge atttittteegtatatataacatgtettettteagaatgggaatatatgtgtgeeteecaacatttaetgtaaa

25 226250_at HG-U133B

226252 at HG-U133B

40 226258 at HG-U133B

226291_at HG-U133B

10

226299_at HG-U133B

gcctcgggcaggtgagcaggatgccgaggagtcaaggtccagccattcttcaggaccaccaactggcaagcctgctcgccgcaccatccagcccccttc
gtgcctaccctgtgtggccctgcggacctgcgctactttgagggcgagttcacagggctgccgcctgccctgacccacctgcacccacaagcctcctcactgcccgc
caacaggccgccttccgggacttcgactttgtgtcagagcgattcctgggaaccctgagggcatctcctggcacctctgtcccctacacagactgttagagcctctg

15 ctcgttcacccgtgcgccctgcctggaggtccaggccttgctgggtacttctgagcccttgggattcaaagtggcagccatggggccactgttgtgggctttgctcagtgt
cactgggcaaagtgtgtcccttcccctccagctcgccctcttctacctccagcgagaacctggcccagaaagggtgccgcagcaaggagtgatatgg

226301_at HG-U133B

25 226324_s_at HG-U133B

226326_at HG-U133B

226342_at HG-U133B

226384_at HG-U133B

226408 at HG-U133B

ataggacctacagc

taaaccccgatattgggacctcacagtgggtgtctgaaaggacagatcactccggagtatcagggattgtggggacaggagtgagacaaccccccaggtacagc

10 actggcttttcttttcagcccctgacaggccacccccactcctctgcatgtcttggagagcgctagttacacattggcttgtccctttactttttcccagccacccctccccct
gaaatttctgcccctctctaccaccctcactccatgacctgtgagatcacaaagtgaagatgaaccctttctgtgcaggagcagagccaggtgggccctggacanttttt
ttttttttaatataacgagatatttataagtgggtgctagggtcttgactttatctccgctgcacaagcagtgtgttgaactttctaatctcatccctctcaagtgagccctga

15 226435_at HG-U133B

20 226438_at HG-U133B

25

226448_at HG-U133B

226450_at HG-U133B

226454_at HG-U133B

226496_at HG-U133B

226499_at HG-U133B

15

226508_at HG-U133B

226531_at HG-U133B

226538_at HG-U133B

35 226545 at HG-U133B

40 226546_at HG-U133B

gtctgatattgaagctaaagaagctaagctggaagacaagagagaccaagtcctgatgacattgtttgaacccagagatccagacatgcctgaaaactagttttacca ctggacttatccgttgaa

226550_at HG-U133B

10

226560_at HG-U133B

226590_at HG-U133B

25 226607_at HG-U133B

226625 at HG-U133B

226634_at HG-U133B

226635 at HG-U133B

ttaccagtaattcttttatcctcatatacccggtgttcagattttctagattggctcctaatttttttacagattatttgaatctgattcaattcatgtactgtaatgtttgataacttaag taccctttataggttcicttttacctcttctttattaaattccttgtaatttgttgtactaaatagattgtcttctagaatttcctgtagtctgaattatgtagtattgtttcacatgttccagt 5 gtcctcttatttcctgtgagttggtagttagttagatctagaagcttgattaaattcagatttctctcttttagatcatcaactttagatcatcaactttgga

226641_at HG-U133B

ggeattgtttgattttgcagtgctaaaatgctttcgtcttacgaaactataaaccataggtcagtattataggggaaaagcattttaagatagtgacaatctgagtgtttgtat
aaaatgtaattctatgcgtttcttatgtgatctaaaaattcaatgcaaatatcttttatttggtagttttgtctacatattttatgctctagcatgtgcaatatatctttgtaaagcacg
atgatacaaatctggtgccagtgttatattttgcataacatatttgtaacagcataaaatattgtttgatgatttcagtgggattttgtctataatgttttcttatgtaaattggagttg
aatgactctggtaaatgtcatgaactgtaaaaatggggaaaatgacttttagttcagtgaatgactttgaaacaatctgaatcttctcaagcacagtttaatacttttgcaact
actgaatgctctaataacgt

226646_at HG-U133B

20

226713_at HG-U133B.

226726_at HG-U133B

35 226734_at HG-U133B

40 caatgctcgaagaatg

226735_at HG-U133B

aacttcctcctgcctggccaagcagcatcatttccaggacccaacaaaggcaacatcaaaatctgttttgctttgtcagtctgggcttccagaatgttgaatttgcctcaaggcctcttcagtataaggaaatacctggaaaactgtgaaacttttaccacgacgtaatctttccagtctcatact

226741_at HG-U133B

10

226743_at HG-U133B

caatcaaactctcgctgctggcgagagtcttggactctgtcttggacttccagcctccagactgtgagaaacaaatttctgtngtttcagcttctagtgtttngtta
ttgcagcctgagaacacagctgtacgattatttgtcaaacagaaaacactgatacttaacaatgctaaigcaattatttaittgctttcagtctctacaaaacgttctaaaa
cactaatctaaatattaacagtaaaatatttgcataactaatggaaactaagaaatcatatgaccaatatttcacttattggtaatcttactctactgatttccccagactg
tgatttttgaacttccttgcctttctcctgtctttctgtgtttattcatggaattccagttatctgggcttgaaattgcaggctctcctaacttaagcaaaatctgacagatcagcaa
aatgagataaatgtttctttttctttctgactgcattaaatc

226751_at HG-U133B

acttitgaccacttgtgactggagttcagtggccctggcaggcttgtcctgctcttgaccattcactgactaactttggtgtttngtttccaagttaagtgattcctccttttttng

20 ttcaatgttaaatttaaaaataacaatgtgtatgggtcctcccatgtgtaatatggtaacatgtaacttgcagtgtttgccagctttcaaagcaggctttgtgaaaatgtaata
caaacagcagtgaatgggactcaaatgttgtgcttcctataaacagctccgctctttcagggaaggatggtaacaaactagaaggacaaatatgtacgtatttataac
gtattaaaactcttttaagtagcttaaggtattgtgcaatggcctagcctagtagaaatgggggaaaagcattgctgtggaccattgttaaagtgacaggagttgtagggt
tacccctttgacaagcttccatagtcttcagacacgcacattgatggcalccct

25 226783_at HG-U133B

226795_at HG-U133B

226818 at HG-U133B

226841 at HG-U133B

cctctgagtgttttgtgggttctgggtgttttgtacattttagccaagctaaccacttgtctgcaagtactgactttcctatgaattctttgaagattattgagcaagaaaggaaa
aatatagccccaaattcccaggcttttaatgcattacattaactgcctattgaaatgagaagttcttcacaaacttgtatacccactaacaagattgcacataaacatgcat
taaagtataactaagaaaccctctgtccaacggctcatgcatatgaagtccgaacatgggagtttgccaattgcattcatcaagtcgttttgcggagtccgat
ggaagagctcacaggctctgccttccaagtcctgggttcctaactggtgaccttagcctggggtctgtggggagaccaaccctggcttccaagaaaaccacattccat
ggactatcagaaatagacacagatttgggtgacaaagctggctctgtatttgcatttt

226844 at HG-U133B

10 cagtatatcttttctagtgtcccacttttagaaaggtccaaagatgatatataataagtgaaaatacaattaatcagagctttatttgcatatccattaaatatctgaaggctat taccagttgtgcttcagcctcctttcccttgcaattctcccagggtggcatcctctacggagtcttgttgctccattgttgaccactgatgtaactcaacgtgaaaccttcccaa agctctccacatcactctctgttatggctgtgaccagcagtgaacatgaaaagaacttatttcatgccttctccaaactatattgtttctttgctaagtccagacctgctttttct acatttataggttttctattttaatcgccatgca

15 226876_at HG-U133B

aacctagagatacctccaagcgcggcggggaagagnaaaaaaaagaaaaaatcactgcatcctaaattattgagatctttgtgttgtaattttcaagctgtttttag
agggaatatatgtcctggtttgctgctgttgtttccccaaagtctcaatcagatgaggcaacaaaaagaccaccagaattgcaggaaagcagcagcagcagtctgggat
agggagggggggggaggagagctctccctccgtggtcagtttgtcagaagaaaagcatggaaaaagtgagatttaagaaatctcagccacgggtgtcttcactgcaca
aaagtggtgctaattcagtaaacagtgacacctgtgtgggttcaatctgtggagagttgagttccattcctttgtttttaaatttccacctccatttgtgtttcctattaacctaaa
20 ctcttgtaattctcta

226878_at HG-U133B

aacteggateegaaaageecagagaagetagagetgeeceteeaacacteteggateeacatggtetgtgttetetagaceecetgneatgttngeggtgttetetete
tgtggaetgaetgteetteteagtgaacatgteeaceegacageteetgagtttatateateteaaceeteacaaceeacagaggetgtgteteetagteacagetttaaat
tactggaaaaataaatgaetggeeaaacttggageaggtgteeateecageeetgtgtagttagageaggaateaagateteaacacaaatgtggetgeeaageac
teageeceggggegaggggteaagttetteteagagaaagaggaataagttggtteteagaagacateacaagataegtgtgtaceeaacaatetetgatetetgetg
atettttgettagae

226905_at HG-U133B

35 226936_at HG-U133B

226939_at HG-U133B

40

226989_at HG-U133B

gggttattttgccatatcatttagctggaagtgacatttaaaagcaccctgcatcactagtaatagtgtattttgctattctgcccttgtaatcggtgtccctgtaaaacaatcc ccacagattactttcagaaatagatgtatttctctacgtaagggccaggtttattttctccttttttgagatttctagaaaaaatgctgcttgcacatgttggttcttgaaaccttag 5 ctagaagaatttcaggtcataccaacatgtggataggctatagctgttcagaggtctcctgggggagcttaaaacgggggaaacactggttttcacagatgctccacat ggctgtctttaaaagactcaaaacttttttttgtatgcttggaagctnncccccccccnacagtgtgtcgagtctttgcaaaga

227030_at HG-U133B

15 227038_at HG-U133B

20

227039_at HG-U133B

227041_at HG-U133B

35 227046_at HG-U133B

40

227047_x_at HG-U133B

227056 at HG-U133B

227065 at HG-U133B

15

227121_at HG-U133B

227145 at HG-U133B

227146_at HG-U133B

35 227151_at HG-U133B

40 agcagcttgctgtggggtgctgacatgtgtcac

227152_at HG-U133B

aaacataaaagcttaccaaggacagaacaagaattagttgctggtcagttttcatctaaatgtgataaactaaatcccttgcaaaatcacaaaagaaaaaaattgag gtttcacgaggtaacctttcactccagtaataaaatgacagcatcttatgaacaagcttctcaggaaacccgacagaagaaacatgtaacacagaactcacgtccac taaaaacaaaaacagcnttttttgccaaataaagatgtgtataagaagcatagttctttgggacagtcatt

5 227167 s at HG-U133B

10 227173_s_at HG-U133B

227189_at HG-U133B

ggtttteetttaggtetgacateetgagggteatteateecatgeecagnteeceecateetaeteetaacagatgtgaceetaettgaggeegeettggettttgggteace

20 etgteteaneecateaceecaaacataeectagteetteageetggggetetggentetgageeegageteetgeectgetgtgggaaaggtggggaagaaggng

ateteecteeegggeecaceagetgeecageetttgeecacteggggageagateatgeatgeaateeetgttgeegeatggageteeteageecaetgaeetete

egtgeetggtgeaggeeaggeeceegtetteegeetgeetetgetteeeegteatgeatggtggtggtgtttetaeggtgtetggttetgtgeeegtetetgagaeagteetet

tgtggaatttgeettaaactga

25 227198_at HG-U133B

227206_at HG-U133B

227212_s_at HG-U133B

227224_at HG-U133B

227230_s_at HG-U133B

atttagagtcacatgtccagtagcatttctaattttgagcattcaccttgctacctttaaaaaacatctgagttttaagtggcctttttatcatcatacacatgtgcatacaaaga agggacttggcagtttaaaagccacatatattcacttttattgccctaaatttacatgaaacagacatactggcaaactcacatattgctggtgctaaccttatatttcatagt gttggcatattccccttttcttagattcttactccgaaatataggtacacatcctttgctctgtgcagagggaattacatcctttttcctctcctacaaaaacatgctttattaagta tccatcattactttcctttatgctcgctcaatatgcaatgtgctgttattctaccatgtacct

227237_x_at HG-U133B

20 227242_s_at HG-U133B

25

227243_s_at HG-U133B

tctttctcttttgcactaagtgctttgcagacacggcacagcaaacattttgcnaactgcagcagaaatcgaatttaaaacnaaaaggagggactttaanataccttctt
gacnaaaatcnacnatgcacnacttacnaagtgttcattctagggacaaaattaaataaacagaatgtccccaggagtcagcaggtcacagtctggctttgtgatggt
tgacaaggtctagctacatgggaaagcctgagaagtcactttggaactaaattgcctccattttattttgtacgagtaagggtttgatctacaaaagggctcacatggac
30 gcactgagaacgcctgccagcttccccatgccctcacttggtttgtgttttaggttaagtagtcaatgcccacatcacttcactgctcaagactgagaacttcac

227249_at HG-U133B

227261_at HG-U133B

40 tgcccagaggaggtcctacacattaaaggataaagccccccagtgatgctggcaancaaatgtgttgagttcttaaatcttcatttggttttctgttcaggattttaattgca aatgaatttanttctccagtttatctaaagacctaanttcccaatagtttcctctgcatttatatactctgtagtgtttaggcaaccctgttataagtttattatatattatgtaagtgt gttcttgtatttatgtatagtgtattgtaaatatactcagagcttttttccttttactgtaaaatggtgatttttttgccctatgataatgtaaagggagaccctcctaatgagat tctctcagaggatgattattccagtctattctcagagatttaaatgaacaagtgttattgtttttaatggtgtctcagacatattctgttggtgcattgcttttctgtattcaactttcct

227276_at HG-U133B

227277_at HG-U133B

10 tcattttgcatcttaagctagactaanctttttgttgtttttcctaaaaccataggtgcaagctttgccgctgggaagtcatattgaattaagcacttttgaaaatgtcactgttt gtgacacacaatgttctctacagaaaacttcttctatcttatgtcattttagcagtagatgtanctgcctgccaccaggtgcaatatgtcatttgcatcagccttttcagttaag gaaattaaaacttggcatgcattagttcatatgtatgaggttggctgtgtccccaaacagcaattgcttgtacaagatagaagtttgcttctcagctgggcatggtggctca tgcctgtaatccaagctctttgggaggccaacgcgggaggattgtttgagcccaggagtttgaaaccatcctgagcaatagagaga

15 227279_at HG-U133B

20 cgttaccagcagccttttgacccaactacggcgctctatattttagtagaggattttcacccatgtgcatggaa

227299 at HG-U133B

227326_at HG-U133B

35 227336_at HG-U133B

227353_at HG-U133B

ggcttcttcacatggtcatcaaagacttggccagttccgcctctcccncggccgtccttgtctcaccagcatcacgacgcatcagttcaccaacaacaacacgattcagt gctgctagtgctgggtcctgttctgggggctggtgatgaggccaagagggaaagagggagctctgtgttccatcgagggggcgacaagcctggaccagatgaaag

tgactcatgttgttaattagcggcttagggccaaaggtggccctggaccagtggcctcagcatcacctgggaaaaggttagaaatgaacattcccaggcccacct cagcctcctgaatcagagcatccctttggcaaaccatactgagaaacaaccacgtgcatcaccaagcgctgtgaagaaggcaagctttgagaccttgaaggaatc atcaaactctgggcctcggtgtgctcacccagggcgagacaaagacgccatgctcctccaagtggcctccaagattaa

5 227367_at HG-U133B

227375_at HG-U133B

gaaagacctaattactacgttacatgacctaltgaatttnggggaacgtgttagtaaacccagactagctttgttgaatagaagttgatcgctgttatttaggaaatgg
gtagatcaaatgacttagagactgaattatcctatcagtggttacatggggttggagacactgaaaggcagtgatcactgttgcttctaggctcccttactttgtaggaata

15 tggtatactttcaggaatatgctatatatgttttcataagtacagacaccttagggaagaaaaaaagtgggtaattgaagcttatggttgattaatttcctaacagcacagc
tatgaatattttgctggggtacactggaaggtaggaagactactggaaatttttgcacttgaattttgtttttaaagcattttttcttaaagaatggtagaaacagattatccattcc
aaaatgtcttttctctgatcaca

227388 at HG-U133B

- 25

227393_at HG-U133B

227396 at HG-U133B

227407 at HG-U133B

227408_s_at HG-U133B

227414_at HG-U133B

15 227415_at HG-U133B

tacacagtgggctctgtttgctgcagaaaagagtgaaacttttaactgcttagcacacttgccagtgaaatatacctgacagagcagaggttataactttggctctaatta cttttagtaatggtaagacaacgtgagttttgtttgtttacatgctgtttacaatggcataatttnaaaaatatatacaattgagatatttattgcctactattttaaagatgttttatg tgttttcacctttggaatatattgttacatttccttgtacagataattttggtggctttgttaatgtagctagtaatttttatgactactaagtgaccagttttcggtgccttttattgtggg atgcatgattatgtatttattgtacggaagtcactgacgtgtgtatttttgtacttgctgaaagtaatggttgatcctgatgtacatgatgatagaagacatctttcccaaagg

20 gcactgccttgagatcatccttctca

227478_at HG-U133B

227497_at HG-U133B

35 227525 at HG-U133B

tccattgacttctgatgtctggtttagcattacataatatgttgatcttacactctgcttttgtccaaataaaatgcaatagtatcaatatcaatttcagaaaaatggactgaat atgctttttttggtgatgaaatctcatgtacgatatttatagtgatgtgcttttattttctcatgagatactaaatattaattgtgttgtacatttgtcttagcatatattaaagttttgaaccaaatgtgttaaannttacgctttgccatgtaaatttcccagaagttgttgagctcaaatgtatcctacatccagctgtagaaatttgtcagaaattgtttaaattttgtatataatttgtattaaatttgtattaaatttgtattaaatttgtattaaatttgtattaaatttgtattaaatttgtattaaatttgtattaaatttgtattaaatttgtattaaatttgtattaaatttgtattaaatttgtattaaatttgtattaaatttgtattaaatttgtattaaatttgtattaaatttgtattaaaatttgtattaaatttgtattaaatttgtattaaatttgtattaaatttgtattaaatttgtattaaatttgtattaaatttgtatttaaatttgtattaaatttgtattaaaatttgtattaaaatttgtattaaattaaatttgtattaaatttaaattaaatttgtattaaatttaaattaaatttaaattaaatttaaattaaatttaaattaaatttaaattaaattaaatttaaattaaatttaaattaaatttaaat

40 cttatttaaat

227527_at HG-U133B

gctgacaagtgtgaatcccgtgaagactttattttgtgttgtgtgtatcctgtacagcaaggttggtccttcgtaacaacggatgaaatggttcccttttttaaagcgccctctctccaccctcagcgcccctgtccttggcatgttttgtatcagcgatcattctgaactgtacatatttatgttgcgagaggcaaagggcaagttttggattttgcttcttccaagtttgt

5 227533_at HG-U133B

10 gcataagctaactta

227556_at HG-U133B

227568 at HG-U133B

25

227584 at HG-U133B

227587_at HG-U133B

40

227606_s_at HG-U133B

227607_at HG-U133B

227627_at HG-U133B

227646_at HG-U133B

20

227670_at HG-U133B

227680 at HG-U133B

227700_x_at HG-U133B

40

227701_at HG-U133B

atgttgttatatatgctaccctggtgaaaatatttttataaatcatgttgtcatttatgctttatgtagcctatttttcaataaccttttttaaaagcaatttttttgacaccaagattgtt gatttttaattaacaccagttggtggcactagaaacctgaaatttttcaaagatgaacaaagaaaaattgaaaaggtaatctaaacatggagaatttttaggaaaataa

227709_at HG-U133B

227729_at HG-U133B

227744 s at HG-U133B

25 227749_at HG-U133B

30 catttttgtaacttgagtg

227767_at HG-U133B

227786 at HG-U133B

227812_at HG-U133B

227817_at HG-U133B

227829_at HG-U133B

227867_at HG-U133B

20 acacgcccagtgaggccgaacagaggttccggaagaagcggangcggtcacagcggangcngcgactccggcaattcagcgatctgtgggtccgcctggagg agagtgacatagtcccgcaactccaggtccctgtcctggacaggcacatctccactgaactgcggctccctcgccgtgggcattcccaccacagccagatggtgc cagcagtgcctgcctgtctctctggactcctgtgttctgggtgctggtgtggtgtggtttccaaacagagacacccctcctgtaacgaactggaagcaccaggctaagaacct gacccctcggacttgaagaatggccattcctgtactccacattctggtctagccttgttgggcccaatccagaagagactgctcttgaaaaagcggcccagtgttgattct tctctttccaaggaatgtgactttgggttatccaactttgggggcaggtgtaca

227900_at HG-U133B

25

227936_at HG-U133B

227988_s_at HG-U133B

40 tactttccattcactgttaacatggaataaacacaattcccaacatcttagatagntgtattatgcttccaacagacagtccctctcatataaagtttatgtaccctaaaatct aacccaataacctgtcccgttgccaatagattgagaatttctggtttgcttactctacagttattcaaatgagagtcacgcttttaaatttaca

227998_at HG-U133B

5

227999_at HG-U133B

10 ggaggccaagggcggcccctgggaaaccgggcttcaacagtacaaggaaaagaaacttgctctgttttgtaagagcgtgttccttttcct

228003_at HG-U133B

228007_at HG-U133B

25

228024_at HG-U133B

228029 at HG-U133B

aaaattatactatttcaacattctcatttatgtgaaagcatgtgataaattgttgctgcgtcagagatatgagaaantcctttgcattaggtgggcattattcatagacttctac

35 atgaaagagagagagaataaaagatgcanccaggaaaatctgagcagagaggcttttagtggttgacttactgagtgatgcctgaagtaggtgttcagagtaatact

ttgcgttatactgagagagagaatctgaattttagtagtaaattgtttgccaactgtatatttatgtaataagtgcaataaaatgcagtaaattttaaaattctcttaagataatgt

gtgaac

228055_at HG-U133B

40 gtgtgaaggtgggctcacggctgactctctgtgcccagggctgtgctgccatcctggatacaggcacacctgtcatcgtaggacccactgaggagatccgggccctg catgcagccattggggggaatccccttgctggctggggagtacatcatccggtgctcagaaatcccaaagctccccgcagtctcactcctcattgggggggtctggttta atctcacggcccaggattacgtcatccagtttg

228058_at HG-U133B

tcagcaccactgaagactacgaccatgaaatcacagggctgcgggtgtctgtaggtcttctcctggtgaaaagtgtccaggtgaaacttggagactcctgggacgtg
aaactgggagccttaggtgggaatacccaggaagtcacctgcagccaggcgaatacatcacaaaagtctttgtcgccttccaagctttctcccggggtatggtcatg
tacaccagcaaggaccgctatttctattttgggaagcttgatggccagatctcctctgcctaccccagccaagaggggcaggtgctggtggggacatctatggccagtatc
aactccttggcatcaagagcattggctttgaatggaattatccactagaggagccgaccactgagccaccagttaatctcacatactcagcaaactcacccgtgggtc
5 gctagggtggggtatggggccatccgagctgaggccatctgngtggtggtggtggtgatggtatggagtaactgagtcggaacgctgaatctgaatccaccaata

228083_at HG-U133B

ggagaggccggcctcaaatctttccatttaacaaaccccagtgatgggtatggacagcatgcagggcttttggggcgcttcccccgctcccatcaccctcagcctcc
acacttcaaagttcaagttcaagttcaagtttcaagtttcctaccagcaaatagccctaacttgcctctagagtaggccaaatgccaactctgtaaaacacacttacattatn

10 ggttacagaatgtcactcttaccgtcatgtcttgcaacaaccctgtgaggncagtattaatgcccccttacagcagaagacactgcagctcgnnnaagacagcttaag
tggcagaataatgctagaacagctaaggtttacatgtaccaaataacatgtttcagctcattccatcctcacaacagcccctgaaagtgggtactatcattagtcccat
gttatagaaactgcagcagagttgaaaattgcctccaaattaccggaagagtgtatgaagattgaatgtattcacgtaacatgcttgaaactgcctggc

228092_at HG-U133B

20 228174_at HG-U133B

25 attttgtaccttgaatccacata

228176_at HG-U133B

228183 s at HG-U133B

40. 228193_s_at HG-U133B

tggatcgtctgttctaatatgctgcaagnaggntaaacaaagtcagtttcactgtctaaattgcccagaaatgggatncaagggctgattttaaggtgagcctgagagtg gcctnggtagaaggttgagtgcacgtctttgtcccctctggcagcagattctagtagctgattttagcaggtcctcggaactttctgaagcttctccttatgatgaaaggac ccagaacttcttgtttcacatacttgctaaagttttgtcaagatcagcaatgaaggcttctagctcttttgtgtctcctaatttagctttctgaggagtgacagtggcagagaga agagctggggtagagtctgttggagaattcagtttttcatcac

228211_at HG-U133B

228242_at HG-U133B

acagtattacttaatgcttctttacagaatttaatagagaaacaaggctagaacacatctacatcctgaagagccgtttataacttcatattatatgatgacaaagttcatta

10 ttttccttaaagttgagcaattgacttttatggtccaatgatgaacttattattaataaatgattgagttaactgtgaggcttccattaaaatacaatattgcagctatcagttgg
agaatatattataaaattttcagacagtatatcagaaaaatgttttatttgtactgtatagaaaatgtaattttgctgttaactctgtactttttaaattgaaaaatgtttaaaattt
gcttttaaattttcttatgaagccatttgca

228266_s_at HG-U133B

20

228298_at HG-U133B

228328_at HG-U133B

35 228343_at HG-U133B

tgggccagcgaagacagggcacagcntgggcagatgggctggggcttagcaccacccaccaaatgttcttttccagaaggtgaaagagaaagggcctgaacaa ccttacaccaaatattcagtagcttcatccaaaggatgtacagaatttttagcattgtgctcaacagaatgtgtccctaccatgtgtccccttctcccttggcccccagctct ccccacctgggcagggggtcttgctttaacctcctccccccagcaggggagaggttcaagggaaggcntgcggacaacttttcatccctgttcctccttttccc ctttgaagggtgggctaggccattttgccaagttctagctctcacaa

40

228345_at HG-U133B

tttatctcgactttttatttccattttttctagtacgcaaatagtgtaaaattgttttaatgcctggactttgaaacaagtaacaagtgtttgaaagtatataatctacgagcgaatt tgccctccntggactaaccacatacaaatatgaatctggctgcaagaacaggatatccaggtaactagagagtgggcattgataaaaatatctggtggagaagcctaggatttcaactttttgtcagaggattcctgttggaacagctttaccagaaaagaataatagcggatatgttcatccaaactaagaactttcatgcatcttgcattgttacata

gcctgtggaatgaattcattttttctcccttgagtccaggaatgacttccctggaaaaactcaatctatatacagctgtgccaaaatgaaggatacctgcctctccgaaactttcactgctgcttctgtcattgtcagataaa

228361_at HG-U133B

10

228377_at HG-U133B

228379 at HG-U133B

25 228390 at HG-U133B

taccaacatccaaaagogtttetteeeetttetaegtgtgeactaaattetaaaacaaaaattggaatacaaaatgeetaataaagaaaaaatteatgtacagaaaage
aaaagataatetaetttgttaagataatttgteactagetggttgaataatgeacagtttttgtttaaggttacacatttatgeetggattaaataacaatagtaaaacttgaca
agtettttgaaaaacagetgetaaacatattgetttetggaatgtaateattageaacaaatattetettatteetatacaattgeagaatgetagtggaactttettgtaggttatt
tgacaatgaatgttaattgatttattttttaaaaaatgtaaaaateetettateeetttaaggeeggtttaggettteatgteeetgtgntagaaaattteaaatgetggcttetaattte
30 tactcactgaagtgtetteeagacataccagatggttggageteetttgatagatatataagggagetacataaaatgtatttgaactaactegtgagea

228408_s_at HG-U133B

228410_at HG-U133B

40 gaaatgatcccagagacctacaagatgtgggaatcagcataacagggcaatgcagcaattaaccccacatcgttttctgtagttcctttttgtttcattttcttctgtctcacc tcgttagaaaattcctcccagtcaggggtcgtccagtgcaggaggggacccaagggtctcaagcctgcaagtccagaaggtgacaaacccaggagcactggg agttaagctttccttggggagggaagagccttgatgtccagcacacagcctggctataaagacacgaagcgacctacccactgtacagtccacttcacaggatcag ctgaatcatgacctttaaaagttccgagttgaaactgaaggctctcctca

228424_at HG-U133B

228471 at HG-U133B

228476_at HG-U133B

228485 s at HG-U133B

20 ttttatgttattccttggcaaggtgctgatagtctgcagcacaggtttagctgggattatgctgctcaactaccagcaggactacacagtatgggtgctgcctctgatcatcg tctgcctctttgctttcctagtcgctcattgcttcctgtctatttatgaaatggtagtggatgtattattcttgtgttttgccattgatacaaaatacaatgatgggagcctggcag agaattctatatggataaagtgctgatggaggtttgtgggaaaacagtaggaaagcaatgaaagaagctggtaagggaggcgtcgctgattccagagagcta

228496_s_at HG-U133B

228497 at HG-U133B

30

35

tcacccatacgtccaacatcgaaagaaaaccagtgttatgactttgttccatttgaagactaattgggagtccatctctctattggcactgggttcgattgccnctggctaat agagttcaattagttctatccctgggtttcctttcttagctatggggtggaagataggagggggagatctacaatttgaatatgtgttacttaataaggctaggctggccatc agttgcttatttcagatgtgtcactaaattttccttctagatggtccttgagcaaaacttaataattactgttttttatttccactgcctttataaaatc

228518_at HG-U133B

aggecteccagagaaggetggtgaccaggteccaggegggaanactcageettggtggggcctgaggacagaggaggcccaggagcatcggggagagag gtggagggacaccgggagagccaggaggtggacacagccagaactcatcacagaggetggcgtgccagggtccagggtcacgtgcaggaacaagcagcc actctggggggcaccaggtggagaggcaagangncaaagagggtgcccgtgttcttgcgaaagcggggctgctgtggccacgagtgctggacagaggcccccacg 40 ctctgctgcccccatcacgccgttccgtgactgtcacgcagaatccgcagacaggaagggagnctcgagcgggantgcggccagcgcctgcctcggccgtcagg gaggactccngggctcactcgaaggaggtgccaccatttcagctttggtagc

228555_at HG-U133B

acagaagcctcaaggggtacccagatagtccttgttttaatgagggttctctcaccactgtcttgatgctctgagcaagttacctcttccctctgaccctcagtttccatattt gtaaaatgagaataaacataccaacttaataaagatattgtgaggattaatgggtacagagtgactagaatgatatttgatagaaattaaatggtagcagtataactatt 10 ctgatcactgacattaattattcctattgttattattctttactcacgagggtatacaactcttgtttgctgttgggctgccctctttatgtaggttactgttaatgctgaggatatact cggactcaaatgtctcagcagaaggctgagagacaccaaatgaagtggtcatctagctgaatgtaggaaaaatgaaatgtagtagcaaatcagtatttctaagga aattttcaaggaatattaatcttcacccaaattttgaattttagtaaaaaattaaatttaagggtaaacatagatgacacaagctttcgagtgatttc

228570_at HG-U133B

15 taaacctatttcctagcatgccttcaggaagttgtgccagaccctagattgtgaaggacccactgttcttctgttgtacgagctccctgaaccattgttcagaggaccaatg tcacatcgcttcatgggcatggcccatggagcatctgggtgatatctgtctacagtattggctcttctgcgaggctgatacacaaggcctctcttccacatgatcatttgca aacctccccagcccctaccatccaatgtggaaggaaaacaagaactgcctgaagaagagtccaagctacagatacacagcgtgtgcattgcggctgtcaccttc ctcctcccacttctgtatcctcagagatgctgcgtggatgtttccttaacctcagctgacttccctgtgaatgtctaatgctagttcagggcctccaggcattgatttgtacagt ggtaactcccaatgaggcttctgtt

20

228592_at HG-U133B

228599_at HG-U133B

gaggtgtcaggtcatcaaatattcatgtctatatagtcntacacaggntcncaaaaaaaatgttcatgggataggtcattgataatggattccttattctgagaactccag

30 acgactgaaatatatgagagaaaggacatagtaggagcaggcctgagaaaaaatgaaagtcagaaatctttaaaaaaatacaagatcttattctatctt
attttttctcctcttctgaaatatatatgaggattcctctccaaacccatggtttctctaagaattttgagtcatttgatgacctcaaataattagttttagctgacctcacataact
ccttanaataggagacatctttaatgtctgctattaaagaaggatgaaaattcctatgaccttctcccngattatccctttggcaatatagagtcaaataataacattgacc
aatagtaaacatgctttgccaagaagtagaagatatattctctagccttagtttttcct

35 228652 at HG-U133B

40 228660 x at HG-U133B

228693 at HG-U133B

228708_at HG-U133B

10

15 gaaatcatagcatccaatgattttttggtgtctggctatgaatactatggttgagaattgtattcagtgattgtttctgcacacttttcaaat

228737_at HG-U133B

228766 at HG-U133B

30 228827_at HG-U133B

228834 at HG-U133B

gaggcgatggagagctggacactgatgaggctgggtcacttatgggcataaaaacctgggcctctgggttaaagctgtttttgatctccttatccaactcaattcatttt cattattatcatccacgtaaagcaccttcactggtcccttttcaccaatttggtaagaaacctcaaatgggtcgatccaaacactaagatcctgtggcagattgccacga 40 acatcatcaatgtccaaaccactctctttggatgcttgttcaatcactgggtccactttctcccctatgtgtatacatctaaaccccgatcctttgtatggcttttcaggatacca gtgcccttcatatttcttcttaagaagtctttcaagttcttcaccaaaaatgttgacacgtctcctgggaag

gtattatttatccccctacattatgtatttatatgagggaaaaaaaggaaaaaattgtactttttagtatttacctgttacaaaggacattgtgtttcctgtcatgtaaaaccag ctattttagttactattgtactctagaaaagagctgtagatttatgttaaactcgtacttacgaacaattgtaattagttctaaaaggcatgaactcagctcctaatcgtcactg

5

228916_at HG-U133B

cgatgatctgctcacattcttgctctctacctacttcttggtattccgaattgttcagttaatttagagaaggccttttctgaagggatatctagaaagcataggaaatccttgg ttcagagggaagtgggtctgcttcatggttgttaagtctactgtctggcttcttttgcatttttaaaaataagacgatttaattttaatttcataggattttatagaaaagctcttaat

10 tttctactagcagtatatagtatcacttctattcttt

228984_at HG-U133B

tgagactagaacccttgtcttcctcttacccaaattctaggatagctctnaagcctgctggaaacttggtggcatccaacctgcctcattcggcctgaccggtagaggca ggtggcctgtggacagaagtaatcctctttctgctcaccccaggcagacacaactgcctatgttcccccgatgagaggaaacaggctgagagaagaaaaatgactg 15 ctccaggattataccacagtogagagagaggtcacaggacatgatgcagggtccaggttctgttttgatcaagtcttacatgcccattcagcttctaggccccctcacct cattggcagaggagagtctacactctcttcctcattcagggaagatgctttaagaaatcctgcctctgtgcagcagaggagctggaggcagctccccaggcatccctc cccaaataaaggctta

20 228988 at HG-U133B

gagtttggaggtggatatttagtttacagtgtataaacttaaaatatgcatccctttaacaacgctttgtgttagcatgctgcaaatcaaaatggcacttaatattaaaagctg gtttagggaaattttatgaaaatcctgttcataaatgtaatgcatatgatatgtacttttaagttttagttgcttcatgtttacattcagctgttcaacataattaaaatgtaattttac ttcatgctatattgtggctttgtgtttcaaataatgttcacctttctgtttttgcaccagataagaatcagttccttgagaataaattttttatcttaacttcagaatattaaatttg gaatatctactaaaattgtgtgttatgtggctgtaaatgatgtacacgctgtaaaataagatcgctactgttatgtgggatt

25

229001 at HG-U133B

gtctccgaagaggaagtccctgactagctatataactttgggcgagttacctctcacttctttgtgccccagtgttctccttgggaaactggatttaggttagatgaccttttaa ggctccttgtatgatattttgtgatctgtacatggcagagtatagattaggagccaaattttccaacctagtgctatggttcagaatacatagcaccccaagcgtctggctg

229003 x at HG-U133B

tgacattacgttcttcagagtaacaaacccccttggaggactctcctgccgggatgtccatgtccgcctttgctccgagctggggtctcatgtctgtgggtgtggaatccag gtggccaggcccctcactgccccatcaagagtacttggtgttggagatcttcttccagagcagagtcttgaggtggctgagcaccagcgagtgatgggcctccacctg gctggccagcccgctcagcgtggtacaggtgcgca

229061 s at HG-U133B

40 ccgccaaggtggctttaaccaagagagcagatccagctgnncttagaacaatatttttgaagtatgcaagcattgagaaaaacggtgaattttcatgtcccccaatga gaatttgttgcctttgaatctgtcctgtgtgcccctgatgctttgtttatggtagcctttcagctgtttgacaaagctggcaaaggagaagtaacttttgaggatgttaagcaag actcagttttta

229070_at HG-U133B

229072_at HG-U133B

15 229138_at HG-U133B

ggtctgagaatgtactgccaacccctcttttataagagagaactgattttgatacatattttaaaatatgatagtanagagttaatggatgttaaaattttatttctttgttttggta agtagattaaatcgagaatcatataatcagtacatttgagaattatataaccagtatataataatcaggacacaaccatttgccatcttttcctgttatcatcccatagagt gggtgggggagaatgaatagacataaacctagaataatgataaatggttttaaaactctatattgaatacattccagctgataatgacttttcttttctggtgatatca gcctcagggtnaaaaaaaaagtttcataaatcttttagttataaaccaggaaagttttatattagtgtgtcatttcatttctagactgttgat

20

229168_at HG-U133B

229194_at HG-U133B

gtgccaaaacacgtgaaaagcttacataaagaaaggcatcagttgtcgtttggagaaaggtacacatttttttgatggtcctaagtgatatggtattactactagaatcac

30 agatttcttcaactgacttattttggtatattcaactacagctttctaaggataggactactttcatgtctagtaatacactgtattccccgttaattacccttaagtcagattgta
gaatttgcaagaaactaggtatagaaaaaatgtacaggcaacttttgtggttagctttataaatttagggtgcttataaaatgataaaatgaatctttaaataacctatag
gaatcatctgaatctgtaacatca

229232 at HG-U133B

35 agacctctaagaactgctctctaaggctgcggtancaaattatctactattgcaggtgccttattggtagagggctctgaagagccaaaactgtatatgcaacacttgta agataaaagggactttaataatacaagatttcttgaagatttgttagaaataatgtcttatttctggtaacctttccctttttgtatttataactctactaaccaaattacctatcaat aaaccattactataatattttaaaacaacctatgtttatcaagcttactctctgagtgacagaat

229253_at HG-U133B

229280_s_at HG-U133B

229302_at HG-U133B

15 229310_at HG-U133B

229344_x_at HG-U133B

20 ga

30 229362_at HG-U133B

aggagicagccacgitiggaaccaacatagiticataccacgitgaaaccatgigitigatatgcaaataacagcaaataattitticactcitigtcaatgccaatgcattga aaggcccagaaaatgagaaaaggataacaaactitigataaaaaggtaagaatticigigiggatgiticctcagiticigggaaaattitigctacaaaaggagtitaaat aatttaggaggcagtcttitigcatggtattitiggcttaccttigaatctagiggacctgtaatatgtaagaatgaagaatgtgcttagcaaactgaaatgagaaganttctat ticttaaattictattcctgagattataaaaatttcacgcaaagagtaagcattagcttaacattctccaaatgttcctagaattitigagcaaagattgttaaaaattaat

35 gtatgtctttgttttaggcagaactggaaatattaagtagtgagagtactatagtttcccttttgcctacataaaagca

229368_s_at HG-U133B

PCT/EP02/12303 WO 03/039443

aatactttaattaagaaagatgaaaacctttttccttaagtcagcccaatggtgctattttacatatcaacacagttgaaaggaagtactgttattttgggctgcagtgttt cctccacatctaaagaaagcccattttgaaactggatactgcattaaaacaaagaaggaaaaattattttaactgtgtgcagtttttgaaattaggcatttgtactattttggt tttacataattctcttgcattaacaatttactgttttgtgaatcatgtgtact

5

229420 at HG-U133B

gctggactcagtttagatgatcccaattttgttggcaacatccaaagcatcgtaatcaggagccagtcgaacatatgccttcttctccatcaggccgaatcagggtgtt gaccttggccacatcaatgtcatacagcttcttcacagcctgtttaatctggtgcttgttggctttaacatccacaatgaacacaagtgtgttgttgttgtcttctatcttcatggc agactcagtggtcagcggaaacttgatgatagcatagtggtcaagcttgtttctcctgggaagcgctcttccgaggatatttgggctgtctccggagtcgcagtgtcttcgg 10 ccgccggaaggtgggtgacgtgcggatcttcttctttttgtggctgtggacacctttcaacactgccttcttggcctttaaagccttcgctttggctttaggaggggc

229487_at HG-U133B

ggtcagccgggaaggtgtccggcttagaccttgacaacagacactacccatntgtcagccatgtgcagtggttangaactcttcttngaaagtccaaagagccnttta aaatacagaatatggctttaagaagaaaatgaaatgaagaattaaattaagatttcagtgttgggggaaaaaatacagcttctggatgactggattgcataacattgcc

229513 at HG-U133B

20 gatgtatttgatctcttaggtcatatgtcatcgcattacctttaaaaattgtatggtctaaatgtaaaatagttatttttcaacatttgttttaatacccttgtaactgctttttactcaa gataggaacagttcatctaagaagattttaatgacagggcactcttttggccaaagcagtggaatttcctaagcagcaaggttggtaatagtgctggtaggatctgtatgt gtaagctgttacacaagctgaggatcaaagtgccaatttctcaaggagaaaaacttctccgagaaatgaaagtctctgatctgtgttgtatgccctaata

25 229575_at HG-U133B

gaaggctatgagttgctgctgccccatcataatcttttttgtttagcagaagtcaggaaacgaatactggtacacttacatttcttggaagagcagcagaaaccttggga gacttcctagaccaagaattcctaccacgcaaggcctgtgaaaatattgtaaacttaatatccgacagggagatattcaaagatgccaaagtacctgttttataaatatt accacatggtttaagatttgacttctcacataaaatgagtaaaaataacaatgattttctgcagtaccttaatgatgctgtaattatgaagcagggttttaaaattctgccat

30 gtagtgccttattt

229621_x_at HG-U133B

gaaaaccagcagtgatttgggtccccctgaaacctctgtgaatcggaggtgggcccaggagggtgcaggacgcagcagaaatagtcccagaaaggagagacg aacacagttcagctatgtggcaaagtcaat

229637 at HG-U133B

gaccttggaagcagggtacggaggcgtgtgtcctaaaataaagcatttgagctgctgctacagaggaacaatcaccagatattgtgaccctttcagatgncccagta 40 gtcctgggaggcaggcagggcaggtgttattatcccttctttataaatgaggacacagaatgaggcagtacaagtgactctaaacacccccttagtgccacatcagtct cag

229659_s_at HG-U133B

5 aaatctaatttatctcactgagggc

229681_at HG-U133B

229711_s_at HG-U133B

20

229722_at HG-U133B

gtgggaacatgtcggttctctgtcctgtcagcagctaagaactcaagaacttgtagagtctttcagccatagagggtcctgtcatccattgaagggatcagtccattggg
accttttgccagttttagcattgatgctgtgtcctgggaaacccctgaatacttatcatagcagaagttcagccactgtagccctacctcaggaccgcttttatgggaaaga
ataattcctttaactgcttgagccatttgagttgtggctgcttttggtacttgtaataaattgaaagcatcttgaatgttctgggacagtaaaagaatgtgcctttgtttctgacag
caattataaaatcaattatatgtttatattctaaaaaatgttttgagtaatgctgacatcattggaaaagtgcatcacttagaaaatgtatctgtgtgtcaattttgttgttcaaa
atcagtttcattaatttgtgggaagatacaccttgtacattttacc

229745 x at HG-U133B

229750_at HG-U133B

40 229779_at HG-U133B

gtgaaatgcttgaattttatggtgcttaaatatttaatgattcatgggaaaaatgtgaaatgtgtctaataaattgcatccctttctctaacctctggttgtaaagttaaagacttt cagcatgtaacttttgcaagatgcctggtctgccattggcactta

229790 at HG-U133B

10 229817_at HG-U133B

15

229833 at HG-U133B

229844_at HG-U133B

cagcatccagtcagacctagtaaagaaaaccttggattcttaacccaagataggctgtaaatcactagcnttttttcctcatgaaaaaaaatagagttaaaaaaatatttc
ctctcttttccatattccagctgaactccgtttccaaaggcacaaagaagagtgtgcttattcagattttgaatctttttggtaccttttggttaatgacatagcctcctgaaattct
ggatgtcttcaaagtcagttttgcttctttatcctgaaaatcagatttacaatgctgaaggcatttcttgggcccagtgtagctcacgcaatctctgctacccataagccttgat
gaagatgatacagtccggactgtgagcatggtgcttcatgtatatgtgctgccagtaacaagaattttttgttttgttttgttttgttttgttttgtttgataaaggcataaaagaaactcattcc
ttgacatcaactgtaattccatcattccatgtctgcggatacagacaatnaaaaaaaatgttgtgtagtcagtactaattactgacattataagcattctcaaatgcaataaa
aatgctggttqttcacgctggta

30 229848_at HG-U133B

gctgaagccaaccagagatcttgatctctctctgaggaaaaaacctagaaatgatggttagaatcaggagacttgagaactacgaggaacatggcagcctctagct catacttgtcgttgtacaattgagatcaagtgaattggccccggtctcacattttcagtgaagtcagactcagaactaggtcctgggtttcatgtttcctgctgctcttctcact gtgtacacaccatgcccacatacaacatacctatcagaaatggttttcattaagggagtagaatagtcacttaactggggctcttaacattgctaataacctgtggctca atttcctcaactgtataatgaggttactactactagtatctacctcaaagcgttgtcatg

35

229872_s_at HG-U133B

229923_at HG-U133B

229934_at HG-U133B

gatggggggcgcaatagtcttgaacattgtataaagtgtccangaatggaagtgctctttgattcatnatnattttcttccttcataltcccctcccagagtntccnatcntagg acatcagcattctcacacaagcctaatggctnatnctgagtaagcagggcntagaaattcactnttcttgatactcagtnctngccttctanacactccttgatcttgccta

229937_x_at HG-U133B

10 gaggagttgttcatgaggaaaaaccaaagcttgaaaattcaacaaagccagtgaagctcattcttgaaaacatgaatcacactcatgaattctaactacaatgaaaa agagaaagaaagagcatgcatttccatatgggagtgagccagcagacagccctacagatcgtacacacgttttccaaaactaacaatggaacaggcggc aaacctatgccaatatactagaaattgcagattaaatagatgaaatattctaaactggagtttacataatgaacataagagtaatcagagaatctgactcattttagatgt gtg

15 230110_at HG-U133B

aacaaaaagacctcatgctcatgcagtggacatttcttggcctgttttcctgtgggttttcttcagcatgatatgaagcaactgttngcatagccagtgggataaataagaa atggaatcatttggctgctcgtcacttgtgctaatggtcagttgtacacacatgacatgtggaagtgacctgtagcagcggtcactcattttaacaattgaactctgctgg gttggggtatttaccttt

20 230245_s_at HG-U133B

aggagttcatgaaggcagaaatgcctggggcccacgaacatcccagtgtggncctggacgggacatcatgctgggcaacacagctaaaatgcgggtgaagaccaggattctttgcacatggcggtgacgggatgctccctagagagacttcaagtggattctttgct

230292_at HG-U133B

230363_s_at HG-U133B

30

35 agggtttgcccttgggaagaagtgatggcctgttttggcttttgtaggaaaactgaaataatgtgtttctgaactattgttcctgcaccttttctaggttgatgaccgatttttttgg aat

230405_at HG-U133B

5

230489_at HG-U133B

230499_at HG-U133B

20

230526_at HG-U133B

230551_at HG-U133B

230588_s_at HG-U133B

35 aacagtgtcttctaggaagcccagacacatggagaagttctgagtgttttggccgatagtcccagatgaggttccagcaacagctgggatcacccatgagatgtgagt ga

230636_s_at HG-U133B

gctgtgaccgggcagaggtgctatctgggactctgggttctcagcccggggacagcgaaccgaggggcagatgatccatcagaaaagagccggcactgcccagcccaggccccatctttgagcccggcccaagctctgggaccgtcgtgccccatctttgagcccggcccaagctctgggaccgtcgtgccccatctttgagcccggcccaagctctgggaccgtcgtgccccatctttagagcccggcccaagctctgggaccgtcgtgccccatctttagagcccggcccaagctctgggaccgtcgtgccccatctttagagcccggcccaagctctgggaccgtcgtgccccatctttagagcccggcccaagctctgggaccgtcgtgcccaagctctagagccaagctctagagcccaagctctagagcccaagctctagagcccaagctca

5 230650_at HG-U133B

10

230659_at HG-U133B

gaattatgctttgtcaagccaactataaggcagctttctacaacagttctgcaaaatgtttccaccacattgagcaaagctgacactagacactagctacacgtgggaat aggaagatgggccaggctcagagccgccgcaaaggatgaagtccactcagatttgaggcaatcctggggcaaagcactgagcaaagcaacttctctggtaatctc ctcctcagccattctctacccaggatttcagaacacagaacagaagaaactgcaaaagccctgcaggatatatcacagc

15

230689_at HG-U133B

230713_at HG-U133B

230743_at HG-U133B

35 230753_at HG-U133B

40

230768 at HG-U133B

ccacgcttcaggggctagcacaaagccacagttccactttgagtccttcagaagtgacaaagaccaaatgtggcccagtatgtgaggcaaggcggaagtaggaat ttcatgctgttttaaggttgctta

230775_s_at HG-U133B

10 230793_at HG-U133B

15. aattgctggc

230795_at HG-U133B

20 aaggcatgtgtaaattgccagtgcctatttctcagaaccagatttggtgatcgcaaagactgacgtggccctctaggtgtgcctatactgcaccagaagagcaagccg agaaagcagtgctcaaacctagagcattcaacctttcataccg

230802 at HG-U133B

ttgcaggittcatcaaagacatttgtaactgaattctgttagaaaaataattgtgccagaaaaataattgtgcctggaaaatatacctctcaatgtataactcaagacctgg
25 gatgggatatgccatatatgtgctcctgtttaagaaaccaaatatgcaaaattgaaacagaataaatttaaatagagagtgatgattggcactacaagtcactgcagg
gtgtcttacatgatagcttcccagtccattttaaaat

230803 s at HG-U133B

230834 at HG-U133B

agcaccataaccccaggagcaaaattcgaggaactttctacaaaacacttgaccctactcaaaattgccaaggtctcgaaaacaaggaaagaatgccgtcacg gacgagaggagactaagcagatacgatgactgaatgccatgtnggatcccgggtgggatcccgaaatggagaaaggatattagtgaaaaaactggcaaaatctg aatacaatttggagtttagttaaaagtaacataccaatgttggttccttagttttgggaaatgtccagtactacagtaatgtaagatggtaacattagggagagctgaaatc gggtgagggctatgtgacgaatttgtactatctttgcaactttactgtggatctaaaaattattccagattaagaagtttacctatataaaaagcatatgtacatcataattaca gttatgcaaaaatatggttagaaaaaatacataaggaaaacatacgtaaaaattagtgtggttctgttagaatggtggcattgtggagtattttttcctcttatctgcttactg aatt

40

230877_at HG-U133B

cagggggacgggcacccatcactccgcaggcgaatcagagccc

230917_at HG-U133B

10 230939_at HG-U133B

15 gagtgtagtgtg

230960_at HG-U133B

230983_at HG-U133B

230986_at HG-U133B

30 gtatctctcttgaatagcatttggggttcaattgaatttgttgtgtttacaacagcaaagcaccgttagcctggacagttgcttatggcatcgatagggttggataatattctgg gatttgttgcagcagaattcctctatctgatgatcagcagttgaacataaacttcataattatagtaaaatttaggaaaaactatgagtgtgaagagtatgaactgattggg tagattaggcagagtgcattatgggcaagacaaaggtttcgatattaacttcttttaaaataaactttttattttcaaacagtttcagtttacagaaaaaatgtgaagctagt acagagaggtctcatttaccccacacccagtttccctgttattagcatctcacattaa

35 230988_at HG-U133B

40 ac

230997_at HG-U133B

PCT/EP02/12303 WO 03/039443

ggatgcagtcaccaactacaaactggcctggaagtacagtcatcacgccaaccctgccattggcttcaaacttgctttcaactacctgaaggacaagaaatttgtgga ggccatcgaaatctgcaacgatgtcctcagggagcaccccgactaccccaagatcagggaggaaattttggaaaaggcccgaangtccctgaggccctagctgg ggtcaaggggcctggaccagtagaagccatca

5 231002_s_at HG-U133B

ggagaaaactcaatagggttcagggaggttctggcagtgtgcagtgtgaaataatcctgagtnccttgctgaacacaactgtaggcttgagttataaagcacattcca

0 231050_at HG-U133B

to catch tigg the description of the content of tccaaaaaatatttttgagtgtctcccaagtgccaaaccctggctactcccacctttgcctgagcccatgagcggtagtctggggggtggatgtgaggagttctgagttgg ctaggaagacacaaggcacaatggacatggggcaaagtccacttgctggacattggtcccttccacttccaagctgtccatcaggctgagagatctggaatgcatac

15

231069_at HG-U133B

gcctatttcttgactgtcagcctgttctcttgaaactacaatatatgttgctttaaggtatctttaaacaagtaactattttctcttagctggtagtggatgataattccattttagaa ttactagttgtaaaattttaatacctcaggaaataccacagtgttcccactaatgctattltttaattttttaatttagtttgtcataatttggtttcatcaactcctttgttttttccttcttttt

20 tttttttgagatgaggtctcactatcttgcccagactggtttcgaattgccctccagcaattctcccacctcagccttcagagtagctggcattgtgggtangcaccactgtg cccagctcctgttttataataaataagccagagctctatctccaaatggtgcaaatcatcaatgctatt

231093_at HG-U133B

25 cctgctgctgatttggaattaccttgccaagcccctttgtgccttatagtgaactttctctaagggacctgtcatctcttatcattgtttatccattttctagattctgaacccaaga aagaacaaagttcaagattttccatgtctttgtaacacttagccctgtgcaaatcagagtatgtgagtggaagaaggggtgagtcctaactgtacatctcggatataaca

231101_at HG-U133B

30 gaagttgccctacgaattttagacatatagctttaattgattctataaatatgtctaaaatgtggctttattcttctcagtttggaatgatcaacatacaaaattgacatcaagg aatccccatcaatgttcttt

35

231118_at HG-U133B

teggggagaaaaatgetegeettgeectgeaggatteeceagaagaaceatgaagagateateteeacetaeaggaateateteetgeatgetgetgegggttacatggaacatgaagtgtacaatatcctgctgcaaatccttagcatggaagaggagtgaggcagcctcactgtgtgccctcagggatacgagattctctgttggaata agaaaccctggttgacagaggcttcatcaggctgtggtgggcgggggtgttggccactaggcaatggtatgggcagggcttcacctgacattatggacctc

40

231181 at HG-U133B

aaattottaaaaataatttgtattgtaagaagtggctatctagctottgaacaagtcataaaaatcotttgatgtgtgaatattottotacotaagacotgaaatgttggcgaa gtaaatatgttgttccaattttggtcaaagt

231215 at HG-U133B

231241_at HG-U133B

gagaggcatcacttcgtggctatgcggggaatcagaatcgatgagaaaattccgcagtcgtccaaactgtacttcatattgctggggctctgcctggcaagggactgc

agacactatgtcggcacaatgagattctctgtgtaccgtgagattggccgccaactcttcagcagtctgtggcagccgccagtccttgcttcaggggaccgtctgagtcca

cgtactgccagcgtttgaggtagcaggacactgccatctggatctcctcggtacgcactcatttcatgactgaacatcccaggcggc

231259_s_at HG-U133B

ttgcagatgaagccccgcttttgaaaaagctccaagatgaggatctccaaacagcctggtggaattctttttagtctgtttcctgacacctggtacctaagtgcaaattaca

15 acatctgagcctaccgcataaatgtttgtactgaacgtctgccttgaaggggaggaggatcccttggttcaatgtattttttccatcatgatgaggataccagggtctaac

tgggagcccgatggcctccatgaccaaaaaggtccctgggagtgagaccgccctgccttccacctgagagggagtcagccctgctccacactgcttctgtattcctcat

gcgaatgggctcccaagcagaaactgtacggttgtgaggtattatgaaaacaaaagcgtgaatcattgccttttgtagttattg

231269 at HG-U133B

25 231277_x_at HG-U133B

tgtggagatgggggtcttgctgtgttgtttaggctggtcctgaactcctggcctncaagcgatnccttctgccttggcctctcagtaaattatatagaagagcacttctgtata atttactcagtttncttcatcacatatttnccaactgttgnccctaaataggtttaaaaatgtgatcatgttattagaaaatcctttnccattgaatttcagggatgctgaatttcaggggggctaaattgttgacccttgcctgtagttgttattggttcagaagtaaattttattgatgctacaagtaaaaaattaganctgacttagtaaactcaaaagttttacaaa actgtattttactatgtagatgtatttctttaa

30

231310_at HG-U133B

231332 at HG-U133B

taatttggagcacagtcttcccggtgcctagacatgccaaggcccctcccacgtggtacaccctctccgtttagtacctgaccacctgtttcaaaacgcaggtgtttctggt ttagaaacttggaaggcggaatgtgttttcgtgtcttctaggaagggtctgctgaggaccagaccacgtaagcctgagtggatcctgactcagctgcagcccttacctgc ctcgtgctgatgatctatgcatggcgttatgtagatcacgtgcggcagagacagccactgtcctgtgtgcggggtttttaaaacagctgccctggatgaa

5 231418_at HG-U133B

10 gctatggtcactccatgcaaaggccagatagagatgtggtgcgtatgtgcagagtacctcaagaaatgaaagtcagcatgtctcttggaagctatg

231472_at HG-U133B

231538 at HG-U133B

gaggatccagttcaggttgatgtcctgggaaccagtgaggctctcgcttaaatctatgtgttgaaagtggcattttgttgtagcttgtatcatatgttgttcaaagtagtgt

20 ccaaactgggaaggcaagggtttgggctgcacgatattcctcaggtcatatctttcctggttccagttgcccatcagggtacggtttgaataggtattctcattagtggtgc

atcgccatccatactggaaaaacttggacatattattccaatctgtccacacttcaccatggccatctgcattaacaaggctgcc

231552_at HG-U133B

ggcctgtcctgtgcattttaggaggtttaagcagctctggcccctaccagtagtatatgccctttacccctggggttgtgacaacgaaaaatgtctctagacattgccaa

25 atgctctcttgggggacaaaatagccaccaatcaagaaccactgttctaaaccagcagtctcaaagcatgtctcatggaccactgaggtcctaagaccctttgag

ggaggagtgtagatgaagtcacaactgttttcataaaaatcaaagttaactgtccattttcaccgtgtcgacatttgtacttacggtgcataggcaaagtggataaaatttg

ctggggccctagcaggatgcaagggcaccacactgtattc

231567_s_at HG-U133B

35 231647_s_at HG-U133B

gaaacaaaggctaatcaactgtgagaattatggtcacagaatagaaagtaactattatgaacactgaaaatgtaaaaaaatgtaacaaagaaaaatgttagag gaaggaggaagtaaaggaacaatcattttctcatgattattattatttcagagtaaattgtgagttatttcacaattcaaaaagaatggactgttttaaaaaattagtaat agatttcaaaaatgtccattttgtaaatcgtttctgaatactttgtcaacagttactcatcattaatggcttatacttcactaaaattccatggaaaaccaactagtagcctgtag agtcacataggagagaacaagtgaattctttgggtggcgcaagcatagatgttaggac

231656_x_at HG-U133B

40

gctccccacatgctggtggtgtactctgctaatggagagatgtttaaactgagagctgctgatgcaaaaagagaaacaattctgggtgactcagcttcgagcttgtgcca aataccacatggaaatgaattctaagagtgctccaagctcccgaagccgaagtctcactttgctcccacatggaacacccaattctgcgtctccctgtagccagagac

acctcagtgtgggggcccccggtgttgtcacaatcacgcatcacaagtcgcctgcagccgcccgaagagccaagagtcagtattccggccagcttcacgaagtca gagaggtacacactctcctgacagaggaaagctgtttgctgcactggtttactggatagattaactgggttgaggctgtgtaattta

231736_x_at HG-U133B

5 tattcatggcttttgcatcctatgcaacaattattctttcaaaaatgatgcttatgagtactgcaactgcattctatagattgacaagaaaggtttttgccaatccagaagactg tgtagcatttggcaaagnagaaaatgccaagaagtatcttcgaacagatgacagagtagaacgtgtacgcagagcccacctgaatgaccttgaaaattattccat ttcttggaattggcctcctgtattccttgagtggtcccgacccctctacagccatcctgcacttcagactatttgtcggagcacggatctaccacaccattgcatatttgacac cccttccccagccaaatagagctttgagttttttgttggatatggagttactctttccatggcttacaggttgctgaaaagtaaattgtncctgtaaagttataatgaatactttc ttagattttaggtaggnngggngnagaggaatntanganacnttnnggntannnnnaacccacttttgatattagcatttgccatattcctg

10

231775_at HG-U133B

15 ttaaggaacacctagaacactggtaaggcattatttctgggacattatttctgggcatgtcttcgagggt

231793_s_at HG-U133B

231794_at HG-U133B

231837_at HG-U133B

30 accagaaaacctcatactcagtcctcagtgaaagaaagtaaagtattaaggactttagacagaagagcattgtgtaacttgactgaagatcatccattaatagttatta ggcatttaggtaaaattttctaatacctaaaaattgtcaaaaacagtcaatagggctactgctggcccaaagaccatttaggtccacctcctcttttttgctcntttittttttct gtgacagtttcactgtgtcgcccaggctggcgttcagtggtgcaatct

231854_at HG-U133B

40

231870_s_at HG-U133B

231873_at HG-U133B

5 atgtactgttactggcagtttactctccagcatataaggttgcattttaacttttagattatgaactgtgcaaactttacccaaaactatcttgcatgattccctctaaatatatt ccttgattaagtaaatctggcaaatcactgtttgagctagttacataaaatttgttatcaagagaaggcttttctacaagtttccagattaacataaagaaaagagggaatc acagggcatttaagtgcaccttcccattactttccttaaatcacctcatagttaggctgggcgcggtggctcacgcctgtaatcccagcactttgggaggccgagacggt ggatcacgaggtcaggggactgagatcatcctggc

10 231887_s_at HG-U133B

15 ccatctgtaaaatgggagaataatacttgcctacctacc

231897_at HG-U133B

gcttggatttgatgtcgtctttaactacaagacggtagagtctttggaagaaaccttgaagaaagcgtctcctgatggttatgattgttatttttgataatgtaggtggagagttt tcaaacactgttatcggccagatgaagaaatttggaaggattgccatatgtggagccatctctacatataacagaaccggcccacttcccccaggcccacccccaga

20 gattgttatctatcaggagcttcgcatggaagcttttgtcgtctaccgctggcaaggagatgcccgccaaaannnnttgaannanttnntgaaannnntnttanaggg taaaatccagtacaaggaatatatcattgaaggatttgaaaacatgccagctgcatttatgggaatgctgaaaggagataatttggggaagacaatagtgaaagcat gaaaaagaggacacatggaatctggaggcca

231926_at HG-U133B

25 tcttttctcgtggactcgtaatgaggtggtttccatagccgccccggggccgtcatcatcagctttatcgtctaaatttaaacgatgagcattcatccttcatgagttacgag aagccagaactcctcgctttgctccctggctgtttttggcgtgtgttttcgtctcacaacccggctcctactttccccatctggcattgtccctggcaccgcttttggcttgt cctgctcagtcttcgttcagggaacagcttcctcttaaatgtcccttttgcaggtttttagaaaaccggttttcttggataaaagttggcagtgaagtggcagtttgcaagtggc cagtgattcccccaactccaaagacagattttacctttctggttatttttgtcatcttttgggcagggcaaaggttacctgagacacaattactttgggaatgtagattaaga tacgttacatggaaacttgcaactggcatccgaaagaaaaactgttttatcctgttgtacaaataca

30

231945_at HG-U133B

cagatgctactgctgccgtgaaagtgaaccttcatctgtnngtgccagttctttacatgtactaatttaagtttnaaatatngtgtntatananataaccaactaataaccat tngtctttcccatttingtgcatttgtttngatgctggggaacanaattagcaaaactattgcttgctgcctagaagccagggcgtggtttctagttccagttttgcttctagcaa gtggacccatcaatagacccatctgagcctgtttcctcatcagttagatgtggggactcaatcacacgctcttcaagtccggctcccatatttcctaattgcaagccaaatt taatgtaccttgttccacaataatttttattaaaaaaaatcctattacaaaataagacatactttaactattgtcatttgcctctttcacatcatgaatttgctttatgtgctggaaa

aaacatcacatagctatcacagggcctggacctctaaaattttgca

231969 at HG-U133B

atttcagagtattgcttttcacatttatggctctgtagcaactgagtaacagtaggggtgatatgtatacttttgcttcactaattgtatctgagcacacataggaaagtctaga 40 cactgtaagtgtaatacgcattttcaatgtcatgcagttgccaattccattttaaaatgccacagatgcgtgttgctcccagtctgtggttaaacggtgccacagaactga

231981_at HG-U133B

gctttgactggttttcggtggcatatttgatgtatttgccaagtggcattactgactttacagtaactgttacattattttgtactatattgctttatgtggttcaaaaatagtatatgc catattgaaatatgtaatcctcatgttgtgaaactcatcatgtaatacaaatgaaaatcattacttaataacttacaatttatccatatgtagtttcaatatgattgtgtctatgac

5 231982_at HG-U133B

10 ccangcacccactgccagctgagagctgcttcccaatggcctgcattaaag

232027_at HG-U133B

232035 at HG-U133B

25 232060_at HG-U133B

30

232080_at HG-U133B

gacatcactagtcttacttctgcttaattttatgagaaggtattcttcattttaattgcttttgggattactccacatctttgtttatttcttgactaatcagattttcaatagagtgaagt taaattgggggtcataaaaggcattggacatatgggtttgccagcctatgggtttacaggcattgcccaaaacatttctttgagatctatatttataagcagccatggaatt cctattatgggatgttggcaatcttacattttatagaggtcatatgcatagttttcataggtgttttgtaagaactgattgctctcctgtgagttaagctatgtttactactgggacc ctcaagaggaataccacttatgttacactcctgcactaaaggcacgtactgcagtgtgaagaaatgttctgaaaaagggttatagaaatctggaaataagaaaggaa gagctctctgtattctataat

232112_at HG-U133B

232127_at HG-U133B

gatocotgattotaggaogtttttaccoatagttottgtotttocaaaatotgaaattottitttttgotoagaaotgggtagcoaagggttattttattittatotttaaaataatoaag goagtogotagagtttotoottgtgaatagatoaototagoattttaatgaaaaagaaaaaatotttotggggtatgttgtatoa

10

232201_at HG-U133B

232204_at HG-U133B

25 232210 at HG-U133B

30

232231_at HG-U133B

aagacacticticcaaacctigaattigtigtittiagaaaacgaatgcattiaaaaatattitctatgtgagaattittitagatgtgtgtitacticatgtttacaaataactgttigc tittiaatgcagtacttigaaatatatcagccaaaaccataactiacaataatticttaggtattctgaataaaattccattittitiggatatgctitaccattcttaggtitctgtgg aacaaaaatattigtagcattitigtgtaaatacaagctitcattittattitticcaattgctattgcccaagaattgctitccatgcacatattgtaaaaattccgctitgtgccaca

35 ggtcatgattgtggatgagtttactcttaacttcaaagggactatttgtattgtatgttgc

232234 at HG-U133B

WO 03/039443 PCT/EP02/12303 · - - - - - -

232636 at HG-U133B

232641 at HG-U133B

20

232739_at HG-U133B

232841_at HG-U133B

232950 s at HG-U133B

- 40 tctgtatacaacgtcat

233072 at HG-U133B

233106_at HG-U133B

10 gggact

233137_at HG-U133B

20 233138_at HG-U133B

233177_s_at HG-U133B

acagegaggaaccctgtggtcctcaggcaggtgtaccttgagtcagccaggagccctcttttcctgtgtcaaagcctgccctcgggctctgctcacctctgtgaccctc

30 caagatgcccctgccctcagtttcccctctatgactggcctctgcccccttctctagccacagcctctagtacactttagcaataccaccagactagttagagttccccact
caccaagcaagacatgcagtttcatgcctctgtgccttcgctcatgctgtttcttccgactggaatgccttcccctgctgcttgtctgcctggcaagttcatctctca
cgatcccctcaaaggccccctcctccaggaaggcaacccctgtgcccctccccccaggctacctctgcactttgtcaatgcttctttgtggcacttatcacactgtatttt
acttgtttacatgtttgtctccccttctagactgtgaatccttaagggcatggactgtatcttatgcatctctgtat

35 233195_at HG-U133B

233261 at HG-U133B

gccggatttgattgcagtatgagaccatattgtaagttgattaattnatcctgcttgncttaatttttgngtttttaaacagatccatattactaatctgacatgaccaagtaaat caccgtagaacaataaatctgntttanttgntcggtgtaattttgagtcagtgtgcacgcattatgcaaagtcgcattccaaatattcattttacattttaattattgaaattcatt

gtatggaaacatgtatgataaaccatttgttacatagcattactcattgagagttaaatggcctggaaggtttatagatactgtcaattgtcagctaggaaaagagctagc atcttgtactagctggaaaaagagtcttgccaataagactgaccgatccctcattgaggaaa

233328_x_at HG-U133B

10

233483_at HG-U133B

233500_x_at HG-U133B

25 233520_s_at HG-U133B

233555_s_at HG-U133B

gctgctcaagcgcctgcagaacaacgacacgtgcagcatgccaggcctcacgtgcttcacccacgacaaccagcactggcagacggcgcctttctggacactgg
ggcctttctgtgcctgcaccagcgccaacaataacacgtactggtgcatgaggaccatcaatgagaccacaatttcctcttctgtgaatttgcaactggcttcctagagt
actttgatctcaaccacgacccctaccagctgatgaatgcagtgaacacactggacagggatgtcctcaaccagctacacgtacagctcatggagctgaggagctg
caagggttacaagcagtgtaacccccggactcgaaacatggacctgg

233559_s_at HG-U133B

233613_x_at HG-U133B

gtggtgtgaattttgtgacactgggagaaagtttgcatatcaggtatgaccttagaaagtaacaaatagatttgntgcattacatcangcatgtggaangatagatttgtc
cttnctgttcangnngaggtcattnacaaatttataaggagnctaaacngactaagtacttggnaaatctgtacttgtaagctaatcacatttacccaaaccngatttag
10 aaatatagangngcttttaggnaattgtttgnaattttnaaaaatnatctccatttcaaatacaanttatgaattttgatatactgtgtataatactagaaatatagagatgc
agtatgcttcgtgtctttctaggaaattcagttcatgaagataagaagttcttgacaaatacatgccccagttcatgaaacatnttcattatagaataattgatgtgagcact
gttaaagaactgtgcagacgctggtatccagaagaatatgaatttgcaccaaagaaggctgcttctcatagggcacttgatg

233813_at HG-U133B

15 tccatctccccatcggtaaaaatgaggatgatgatgtacccgcttcataacgttgttgggggggttaaattaagttgataaatgttgaagtggtatggtcagagctacgtaa gtggtataaattgttgttattctacactattctacatttacgtaatctattattacagcatattctgattgtcatcattgttattattatacaggtgctttgtaccaggcagcttgccttac atatgttatctcggttaatcttcacagcaactctctgaggttagagagtcaaaccccatttttaaaaaaatagcttggggttcagtttacatattataaaaatttgcccactttaagt gtactattcaatganttttcagtaaatttacagaattgtgcatccatcagccacaatccagttgtaaaacattgccatcgctgagtggtgtgggctaacacttgttatccca

20 233845_at HG-U133B

25 attacatgagaaacaagccaacaaaaaggcttctgtacattcaaaata

233955_x_at HG-U133B

234005_x_at HG-U133B

40 234032_at HG-U133B

ggttttctgttatcattgttttagtgtttgtactgataatgtggaagcaaacaccaaaacaatgaaaacagaaaaccacatgatgggtaaaactgctgatgcctcagcatg aatcagtgctgtgacaccagtctgtactagtagtc

234107_s_at HG-U133B

10

234132_at HG-U133B

15 ctattttttaaactttctaaaatactcaggccagatctgttgcctttccaccagtgctaactttcatttgtattcacattaccatatcttgg

234140_s_at HG-U133B

234362_s_at HG-U133B

30 234584_s_at HG-U133B

35

234643_x_at HG-U133B

aaccaaacccacagcttatttatgatgatgagataccctcacttaaaatagaagatacagtgttccatgtatttgataaagttaaagtgaaaatcatgttagaccatcta
atcttcaacatcagaagatccgaatgtccctggtagaaccacagataccaggaataagcattcctactgatacttcaaacatggaccttaatggaccaaagaaaaa
gaagatgaagcttggaaaatagctatattcaacaaaaatcttcaaagactggtttcttttttaaaagaaaaacttgaaagaacacttctaagcctaagtgtgtgataca
gtttgttacttttaagtacattttaataatttcagacatctgcatttttattgaacagttgactgtatctgacccatcatactactactactgggttgaa

5

234682 at HG-U133B

234725_s_at HG-U133B

20 234726_s_at HG-U133B

234764_x_at HG-U133B

gtcaccatctcttgttctggaagcagctccaacatcggaagtaattatgtatactggtaccagcagctcccaggaacggcccccaaactcctcatctataggaataatc agcggccctcaggggtccctgaccgattctctggctccaagtctggcacctcagcctccctggccatcagtgggctccggtccgaggatgaggctgattattactgtgc 30 agcatgggatgacagattgagtggttttat

234839_at HG-U133B

234862_at HG-U133B

actigictaatigigctgtagegitnnttnacatgittgitteteetetageeagtgageaeeteteaageagaattatetteetigittetetggeaeeetaaatattigitgaatta atagteettetettettittgtaatttigetttetgtaatagaagettaattttaagtatagttatateagtaateaaaatgaateaeeaeaetgagaaateaatgiggatgeeetttaa gggttetgttattittittattigeeattgagtaaaataagataeetetgtataaagtatattageattaaagtgiteaaatetgatetttattagtaggeeteaagtgaateettget gaeatttaaggtttataggtttataggtttataggtttataggtttataggtttataggtttataggtttatagggaaageattaaatggetgaengtaaagageaattaataatttteeaagtaaaaeatttteeagggaeate 5 tgeetttattgeteeeaagatgagagtaeageetgtttettatgtgtteeaaagatgattteeetateagetttitggtea

235051_at HG-U133B-1

gaatggcaatgaccacttggatctaggtcaacatattccaaaatgtgtgaccttgggcttngtgtttnactgannnactctagaaaattctggacctgattcattaaccc
cgcttttcttctaatgtgtcctgaagctgagctagatgatgagtaaattctttgctgactgntgctcatcactttctctcaaagttagaacttttcagtataaaaataattagctt
10 ttaactgattattaattttctttaatagtttctgcaaaacttgtctaaaaatttgtgttgtgccaaattggaaatacccactataatatggtgcattcagtttactccacaagtggtta
acattttaagtcctagatttttnatgtcttgcctttgtataagcatcgctttggggaataccaagatgattcattattcagtgattatttcttgaaagataactatgatgattggctg
taaaatcttcaccctaat

235052_at HG-U133B

20

235061_at HG-U133B

25 aaaacagttctctgttaccatattttgtattctggaccacttactggtgaaagcaacc

235101_at HG-U133B

235124_at HG-U133B

35 agtecetaaggacacaatettacteacaattgtateteeaacatttggcataatgeetaatacgtaagtattttatgaattaattaaacgagaacacaageetaaattaag geaatggcaatggagaagaagaagaaaccaacttgagaaatatttaaaggteattgteaatggaacttagtgactttaatggttaatttatetateaacttggetaggegatgeetaccatgttaeteagtttgttgetaagaattagtgatttgttagtagtgattaaatttaaateageagactttgattaaagtacattacceteta taatgagggtgggeegeateeggteagtteaaattaaaacgagaceettaagaagaageaatteageeteeagactgeagatteagactteeaggteagteeageteeaggteggeegeateeggteagatteagactgeagatteagactgeagatteagactgeagatteagacttgeagatteagactgeagatteagattgeagattgeagattgeagatteagattgeagat

40

235259 at HG-U133B

235263_at HG-U133B

235278_at HG-U133B

235287_at HG-U133B

20

235291_s_at HG-U133B

25

235331_x_at HG-U133B

gcagtatagaactatgctaaccaaaattaataggttaagggtattttattttaaatcctgtagtaattggggaaatgagaagattattattttatacatgagttcattaagatc agaaatacaaaatgtcctgtattttgcagttttgttaagtcttccattcgttttaagattagtctgcnagtcnaagaaagtcttgttaccttaaattatagaaaactgtcattttaa atcttttaatatttacagttttcaaaaaccttacttggaaatngctttgaaacaaacaagctaacctttgaaacttaggaaaaaatcttgaaagttaggaaaaatatttgag aaatatgacgagcacaatctgtgtgntacacacatttagtttttatactgcatatgtggtaaatgtgtcacattttccagtaaaatgtatcagaaatcaatgccttctgaatttcaaaat

235353_at HG-U133B

235359_at HG-U133B

235372_at HG-U133B

ataatgcacagggcagtaccccacaacgaaaaataatctggcccaaaatgtcagttgtactgagtttgagaaaccccagcctaatgaaaccctagtgttgggctct
ggaatgggactttgtcccttctaattattatctctttccagcctcattcagctattcttactgacataccagtctttagctggtgctatggtctatggtctgttctttagttctagtttgtatcccctc
aaaagccattatgttgaaatcctaatccccaaggtgatggcattaagaagtgggcctttgggaagtgattagatcaggagtgcagagccctcatgattaggattagtgc
ccttatttaaaaaggccccagagagctaactcacccttccaccatatgaggacgtggcaagaagatgacatgtatgagaaccaaaaaacagctgtcgccaaacac
cgactctgtcgttgcc

235385_at HG-U133B

15

235400_at HG-U133B

cctcatctgtatcaccagatgggccttcttctcaaacacatgcaggatgtgagagtcctcctcggtcacctgctcatggagttgagggaattatctggccaccngaagcc tgggaccacaaaggctactgctgaatagaagtaaacagttcatccatgatctcacttaaccacc

20 235401_s_at HG-U133B *

25 235414_at HG-U133B

 ${\bf 30} \ \ {\bf attcggagtctaaagtgacattccctctcccccagtcatataccgatgccagctgttctataattctttcatt}$

235421_at HG-U133B

235422_at HG-U133B

cgctttgccttgcttgggaaatgcagtttcgtgtcaccintnnnagaagatatgtagttgatcatctagacataattgctgaagatgaactttttggaccaacttctaagtcac
40 acagcatcattatcagatttattacacaacgactttttgttttcactctatttctgaggaaaaagccttcccgaaatccgtaatgaatttctccatggtaacccctcttctgttttc
acacagaaaagtttctctagactgttgctaagatgcattttgttaaatancccccccccacaaaggctgctttgtattaaatacgtagttggaatttactaaattgtgaaatt
aacgtaaccgaagcaacaaccggcaagacttttc

ataaccctgtgagtgcattcctgataataaccctctttctcttgtcctccccaccccacatcattggttctgtttctctggagaaccataatacatcatttactaatcaggaaa tagattcagagacattaataactcatccaacctcacagttaactgtagagttgggcttgaaattccaaggtcgattttcttagccaatacaccatgctacatatatg

235444 at HG-U133B

10

235446_at HG-U133B

235459_at HG-U133B

25

235483_at HG-U133B

attattetttgtttgatacettattttttaagaaagtgggattaaaaatattttggteagtgetgttttetaeeeacetteaaaageeaatggtttgatatttetattaatttgtgetteett
tagttttaataggggatagaagaetgeagetggttgggtetggaaaacattaatetgggeaaaeggagetggagetagaggatetgagteetagggggeeeteatte
actageagtaagaatttaagtggtgeatggeacatageactgtaetagattetgeaggggeacaaacatagageeaaaeacteteeetettggagaattteagaeeea
30 gaaaaggeeacgeagttetaaettttgteateggtteettttgetaaaaggeaaagggtatgtteettgeetattgte

235502_at HG-U133B

235521_at HG-U133B

235647_at HG-U133B

235674_at HG-U133B

235692_at HG-U133B

25 235706 at HG-U133B

30

235719_at HG-U133B

235749_at HG-U133B

gaatatattgatatgectettteagteaactttaaatgteaagaatttgagaagtegteatttatataataaaacatgaaatatatatgggtgtgtataaatgteatatetgttta
40 geeataatattttaattgaeegttataaaaattattagateaaatacaaataaagtaaaataactttagtettgateagaeagttgattagetetattgatgetaagteag
tataaetgtteagaggttetgatgeaaaactetgetgttaatetgtaattaagaaaaaattataaaatatgetaacattgettaatggetaaattgtaggettaggetaatetet
aaaaceaettggtagaeaatetgta

235818_at HG-U133B

235823_at HG-U133B

235982_at HG-U133B

20 actga

aaggttagtgactctgcaggacttcacagagagagctgtgcccatcattcagtccaagtgctttctctgcccagacagcacagaactccagccccgctacttacatgg atcatcgagtttccacctaaaatatgattctatttattttgagtcactgttaccaaattagaactaaaacaaagttacataaaaagttattgtgactccacttaannttagtga 25 cgtatttttgtatatataggccaacctataccacatccaaaattatgtatctattacagcccctagaagctttataaatacagtgtgtcttcttttat

236019_at HG-U133B

236190_at HG-U133B

aacagccaggtttgggcaccatgtgataagatgacctgcaggtctggccttggatttctgcagaggtttgttgggaaggcatcacttaggaggctggcagaccatgag

35 aaagtctcacctggaagcggtggaagtnctgcggcttgaagtcattgggggagcanccgcaccagtccacgatgtgttgtactggcacttgcagccaggttgga

ttccagttggtgatgcgcaggttgttgtccaccatggtgtcgcagtggggagctgttctccaggaccgtatggaagaaggactgcaggggagagagggacccagcctg

agacctctcccagcctcccacagatgaactggggtgggaaatggtgaacccttgctctgagttcatgtaagaactggttgtttaaaagaatgtggcatctcatcagaag

ctgggcggct

40 236226_at HG-U133B

PCT/EP02/12303 WO 03/039443

236248_x_at HG-U133B

aaatctaagcaaactatctttgagtcaaaaaaagttggataactcatctatatttgaaataatgctgtctgaatggccaacatcccaagaatgtattaaaaacagcaac ctgc

5

236265_at HG-U133B

tagataagcatgatgtttaggtcctatttttcaatttintaactgttttattgcaacaatatttgtattaagtctccattttaatgccttgtggtgtttttttatgcatgtcactaagttgtc atcccacataaattgatgtgcagcatagggtattaaatctacataatgattttaaaacagaaatagttgatggtaaaatgtaaatgttttgcaaaaattccttataaaaagtt 10 ttctgccagcaaagcctctggggctgtaattgacatttttacagtgctgatttgtataaaatttgttttttgtggatttggaaataaaatcatgtacaagttgttgcctgcaataac

aattgcaagtaacctattaaaaattcccttgagtttaacatgtttca

236280 at HG-U133B

aacaacatgctttttattttgactacca

236293_at HG-U133B

20 agctatattattattccggggcagccnaaagaggggatgttgctttcaagcgaaancaccaaatcacattcttttctggtaaantagantactaatganttgctttngnna gaaatttccagagcattactgaatgttcaagtgcttcttagagcacaagttgaacctttcttatctctgcactcagtttctcgtaaaactgaagtcacagtgacctcttcccca tttcgtagaaaagaaacccaaggaagagagtggttaagaaacagaagatacggttctcatcacatttgcctgagaactacgtatagtcatccattcagtgcctcgttaa atgttcactctatccccccttttittttgcattaggttttattcattatttgcatcatctatggacctaa

25

236301_at HG-U133B

aattetgetteeagggacaactteatggageetatttacaaattaagagteagettaatttgtaacatttetaeeagageeaagaateeeaaatteetggtagattagtgtttt 30 tgtatttccgtaatactagactcnaagntatgcnagatngnttattcccttngtgaannnggagttgctcattacgttcttgaaatatcgcacatcctgttggttcttcaaagg aagcctttccaccagattagtgt

236341_at HG-U133B

ggagctcaggacactaatacaccaggtagaacacaaggtcatttgctaactagcttggaaactggatgaggtcatagcagtgcttgattgcgtggaattgtgctgagtt35 ggtgttgacatgtgctttggggcttttacaccagttcctttcaatggtttgcaaggaagccacagctggtggtatctgagttgacttgacagaacactgtcttgaagacaatg gcttactccaggagacccacaggtatgaccttctaggaagctccagttcgatgggcccaattcttacaaacatgtggttaatgccatggacagaagaaggcagcagg tggcagaatggggtgcatgaaggtttctgaaaattaacactgcttgtgtttttaactcaat

236378 at HG-U133B

40 gtcaaccctttcagagaccgtatctgcagagtgttctcccacaaaggcatgttctcctttgaggatgtgctgggcatggcatggcatctgtgttcagcgagcaggcctgcccaag cctgaagattgagtatgcctttcgcatctatgattttaatgagaatggcttcattgatgaggaggatctgcagaggatcatcctgcgactgctgaacagtgatgacatgtct gatttcatgaactcctttcggattcncttctggggatgctgatgtagcggcaaatacctgacatggcagcctcgagggagaccacaggaatcgaaccccctccagcac tggagggagctggtttgaagtntgactttgtactgggcccacactcacctctagaatattgt

236458 at HG-U133B

236535_at HG-U133B

caaaaacttgggctttctaatcagaatttccaggaggaggaaagtgtgtgctgaatattttaaacatttcccactgatcatacaaagtctgatttttaaatttacacttataat

10 gcctttgtattaaaattattttaacatgtgcttttccaaattaaaaatgaagtagagtataccaaatgcataaactttcattagctaaggaactcatgtctgaattttgttgtagt

tttgaatgttgtgctctttcatacagaacgggaaacataatcctcaggtatcccagcatctcttgttgaattgaagattattcattgctttggcctcacaaagttttgatttcaact

atcataagtgaaaatatcttcctttaatgtt

236557_at HG-U133B .

15 gtgtgggatggtacagccagctcactgaagcaaaatatcctttgtcggaaaactttccacagggaataacagacctgcgcagtagatttcactttgatatggcccctgt gctggcccagtatggactgcaggttgactttgcaggattccagatgacagtcatgtccctttccaggacctcaaggacgantttcacagtgacacggtactctccatctt aaatgagcagcgcattcggggcattttatgcgatgtcactatcattgtggaagataccaaatttaaagcccatagcaatgttctggcagcttcaagcctgtattttaaaaat atcttttggaagccatacaatctgtatttccagccacgtcctggagctggacgatctcaaagctgaagtgtttactgaaatacttaattatatctacagttccacagtcgttgtcaaagcaggaaaaaagctggaaatacgtcattggaagaccttactgatcgcaacttctcaaattccc

20

236606_at HG-U133B

25 ctaaatctctactgatcctctcttaggagcaattt

236648_at HG-U133B

236656_s_at HG-U133B

ggtgctgtgttacgggagagagtgactggaaagtaacaaagctgaatctttctccctggagtaaggccgaagactggattactacacgcctagacgtgacactacac ccatagatctcatgcatcattaatgccatatgacattgccattttcttctcagttcacggacaaaa

236707_at HG-U133B

236728_at HG-U133B

PCT/EP02/12303 WO 03/039443

ctgtgatgaggctgactcacccatttggtcaagattagtgctagctgatttgctgaacctttgc

5

236787 at HG-U133B

cgccttgagcttctgggtcgagaaaggccaagttgcacactactgagagactgccatgcaccccctggaggcctcagaacattcgacatgctccagtcatggccacggcagtgactgctgattgcctaaccccacatgtgttctcccccttgataatcaagcccctgattttcagctgggcacaaaataattcttcctagaacaactccacgtg tgttatcgcccttgcagctgggggtggccaccactggggagagggcagggtgaagaggtcgaaggagcctgagttagcagggatgagcagtggccaggtaacccc

10 agacccattatcctctggatttct

236796_at HG-U133B

ggtgccaccgcagactaaaagcagatataagtcaagtgctactgacttaagtttggcaaaatcactcctcacagcccgctctgttttagaaatgtttatatttctgatatca cttttgttaatttgaagaacttttaaaataccatcattgtttcaaaacaaaatgtggaaggtgtggatcaccttcctgaatttacagaaaagtttttgggtacatttctttgcgga 15 agattggctgagatgtggttcacggcagggtggtgcccgtgncttgcggatcacgttgtctgtacactgactgacataccaacttagagtctttgaa

236837_x_at HG-U133B

gagatgttacctaccagtaatgttggtactattataaggcaatcgtcttataaactttttcactaaatagtcattttgttttctttgttttcaacacagtttttacgtaacagaactgtt

20 taactcatttttcagatactttggtactaatgttattttatcgttaccaattcttacaacaa

236854_at HG-U133B

gagttgctcagtgtcaggactcagaaaacaataccccaagataatgttcaaacctgagtgctttgaacaaaggatattgaaagacctcagaagagggcctcagaac tcacatgtctctctgaccttctcctgtctctccttcacttccaaagcatgatctttggccaggggatctctctgggattcccttatctgcctgagggatgtacttccaaaagaaa 25 tgtgactggcatgacctcctccctaggaatctcttcaaacagccgggaaagactggtcacctgagaggagattggaagtcctcactgcactcagaaaggctgttgtcc

attcttctagagac

236892_s_at HG-U133B

30 ccaaccaaggagctggcaaaacccactaaccaaccaggagaacacagaccgggtttgtcttttgacaaccgagtggaactgacggg

236908_at HG-U133B

35 tacctcctatcactacactattcctgaggctgtgaggagccactgaagcgaggaagacaccatcagatttgtgtcttggaaagactacagtccagcacagtgttttcca aagcaccttcatcagaataacctg

236914_at HG-U133B

ttagttgagctgtcttcctgaggttgtttggagccgctgcgtncatggataaataactccctaaagccagtcccaacaagcttgcactgaacatcaagaagcctgacaatgtcataaagcaactccagggtgaacatggccttggacaaagagtcatgtggcttatgtgctgaggcctgcc

236979_at HG-U133B

PCT/EP02/12303 WO 03/039443

gtgaacactctactcatggacttcttgagcccaacattgcaggttgccagccggaacctatgctgtgtagatgaagtagattcaggagagccttgttcttttgatgtggcta a cattgctcct gaag tag tgg gac agg tgg ctatccccat gac gg gat tgatca at gg gaac caa gc cat cc gg gag tt catc

5

237006_at HG-U133B

aggtttgtatgtgcgcagagccctgtcgcaatgccccagcaagcttcttgttggcatgtggccactctaaattgtgctccaggatctgctatgggtccatgcttgcaggag aaacagctgtgtagaatttcctattgcatttcatttgtgggtttagaactcggttgcttatttcatattgtctcccttttcagtccttcaaggtacatttttccaacttctctaatgaatt

10

237068_at HG-U133B

gttttgectetttetgeagtataacetggagtaaatttetetaettetttgagaetegatatteteatatgtataaaaaggagatgatgatgatggtageeteatagaagtattgtgaa gtgcatagcatcatttctgatacaagaatatgtttagtcaattttagttcttaaatatatgaatatgcagagtaattttagatgtcagtatacttaaccccagacaaacacatg ca at agc cct ta a actitit agatt gg cac at the cattacc cct to cct gc a at the cattacc cct target the cattacc cct to cattacc cattacc

15 gctgccatttcacaccattaaatac

237291_at HG-U133B

gaaaaactaaaagttggtcaaggctgtgccacacccttggcacttttctgtgatggtggagatgtgaagtttgttctggattctgcttttctcgaaggtggacatgaaaagg 20 tgtactttcatccaatgaccaatgctgcaaccatgggattgagccctgaagactttctcacatttgtgaagatgacaggacatgatcccataatacta

237337_at HG-U133B

tgttgcctcgtgctaaacccagcactagccactggggagcagcctgtcgctgtcccncaggcctgcgctagcttccagggaattcttggagctgtactaatactgcaga aaaactagittagccttggctttcagaagatgccagtgacaatggagtacattgccctaaagcagtattttcaaaatgtgcattgtggaatccatttggtctaagatcaaa 25 ataaattttaatgaaacagaaaaaggtcagagtgcatcacacatatcatggataaaccagattttggtttctaataccactcccattaaaagaagccagggctccttgc agaaatagctgattccagggctagggcag

237411 at HG-U133B

30 attacctttgtattattgtgattagttgttgcttattattttatactcagtaataatgtggtacactgttaattttttgcttttgtaaattattctaatttattgnccatgtttcctaacactt gtcctacattcattctcctgcttgtaatgaaaaatgaaaaaatcattgtaacacttgatggagtgaaattccacgccaggcacagaattttttt

237431_at HG-U133B

35 tggccctgttcttcgcctgccttcgcgacagtgcggtgggaccgccgtcggcccgggcctcccctgccacccagcggccacctcgggcacaggagaggggcatag cggcttcaagtaggggtagcccggaggcccggagctttggaggagcaccctttgagtccagaaactttttaacttgtcctctatgccagcatgttcagcaaacgtcttgttgttatt

237864 at HG-U133B

40 gtgagtcaccaaaagttcttgatacaataaccatttatgagtaccttctgtgtacaaagcactttactaaggataccaaggggtaaattttcagtaaataacaatatccaata aattcattgtatcagagttgaagttttaaaactaaggattctgatacttgtctaagctcatgattcatcagaaagtcatcctgtctattcaacttgcacttttcttgaagattatca

238012_at HG-U133B

gttgctgtggcctggtttgaccctcgtagccagcccatgttctgtgaggcatgaagcgncacgcagacaccacgacaaagtgagatgaactaagacctcttcttgattc taag cagggaac g cacagct caccct g tcacat g cag cgat cataag ctgagaat taccct ctt cct ccca cag cgt ctaat cttttttat g ttttt g t g caaggt ctcgagaat taccct ctt cct ccca cag cg tctaat ctttttt at g ttttt g t g caaggt ctcgagaat taccct ctt cct ccca cag cg tctaat ctttttt at g tttt g t g caaggt ctcgagaat taccct ctt cct ccca cag cg tctaat cttttt ta g tttt g t g caaggt ctcgagaat taccct ctt cct ccca cag cg tctaat cttttt ta g tttt g t g caaggt ctcgagaat taccct ctt cct ccca cag cg tctaat ctttt ttt g t g caaggt ctcgagaat taccct ctt cct ccca cag cg tctaat cttt ttt g t g caaggt ctcgagaat taccct ctt cct ccca cag cg tctaat cttt ttt g t g caaggt ctcgagaat taccct ctt cct ccca cag cg tctaat cttt ttt g t g caaggt ctcgagaat taccct ctt cct ccca cag cg tctaat cttt ttt g t g caaggt ctcgagaat taccct ctt cct ccca cag cg tctaat cttt ttt g t g caaggt ctcgagaat taccct ctt cct ccca cag cg tctaat ctt ttt g t g caaggt ctcaat ctt g caaggt ctcaat ctc

238022_at HG-U133B

tgctgtcagctaagttcacttctgaactaaggggttcctccaaatgttggctgaaattcatcccaaggctggtctgcaaagtctgcaattcataatggagctactgtactgg 10 ctattggaaggaggagattctgaagataaggaggtaaaacctgtttagaaattaaaaatgagttacgatttaaagaaaattcagatgactcattgtgagtgctagttctct tgtaggatgccactggaaatgttgaaatgaaaaatattcagccgttggtc

238026_at HG-U133B

actettgcctatgctggcttcaaactectgggctcaagcaatectecttccttggcctctcctgaagtgctgggatacagttatgagccaccacacctgccaagtgctttgtg 15 atactatgcatttgttcaatgcagattgggaaacttaaaatttgaatggagattatgttgatgggctttggcagttcatttggatagactgggatgagaagctcttgggacttg aaggtggcagctttctttggcttcatgttttaatctggtaaagttcaagattgcactttaagcaggcctcctaaatattttag

238039_at HG-U133B

ctttgacgggattcaggttgggatagatgtcgaagcagctgcttctaggtagtcaacgaagatgtcaactagtaaatgacaacagacaaggatgagcacagcagag ctgtaagattctagatatcaaaaagagcaagcagtctgttgtactcaccatcgcatcctcagcagctgcccagtgcccggttttaacttagtgctcagtgtatgtgtcaggt ttgaatcccaattctgatactacctgtgctactct

25 238055_at HG-U133B

cagaaaaagcatcttccgtccaaagaaacagtgtttgtacaggatgaaaagtctgaggaggtcatcttgggcaaaggaaacggcagctataaatatttgtgaattaa cagatatgcttccctgcacaatgaattaccctttttgtctccagtaagcacccagatcttaatgtcagcttttgcaagttttgaaatggtttctggaactccatcctgtagcttgt ccaaccct gttaaaaagaagggctaattatacatccgggtgagcagctctccggggggccaagggccagtgttaacagcgaaggctgccatgtttcacaattactgcagaggccagtgttaacagcgaaggctgccatgtttcacaattactgcagaggccaagggccaagggccagtgttaacagcgaaggctgccatgtttcacaattactgcagaggccaagggccaaagggccaaggccaaggaaggccaaggg

238057 at HG-U133B

30

35 ataaaacatgcataataaatattcttatttatctcatgttanaagattggtcctggaattttcacagtttacgttattgaca

238066_at HG-U133B

atggggattcttttaccatccacacgaacagcctaaggaactactttgtgaaatttaaagttggagaagaatttgatgaagataacagaggcctggacaacaga aaatgcaagagtttggttatctgggacaatgacaggctcacctgtatccagaagggagaaaagaagaacagaggctggacccattggatcgaaggagacaaact 40 ccacctggaaatgttctgtgaaggtcaagtgtgcaaacagacattccagagagcctgatccacatccagcagcagagcccacttgtggctgcagctttatgccaaatt atattgcagactgaacagacgtttatctatcccatttggcgacgaggactcgtggctggagagagccacacagcgtgtaacctgaagtcatctagattatggggaaac tgctcagcttcaataaacctgtcca

238155_at HG-U133B

5

238208_at HG-U133B

238304_at HG-U133B

ataaatggagcccatacgtgtgtganccttttgggattggnctttttncctcttggncatatttnctctggggatcatgtatatacactgatatggtttcaatcttggaggaatcctgattnctgaaatncctagagtcccaaatctgatgatttcagggctgaacagttcccttctttgagtgatgaggacctgaaggctgaagacctgaggtgtcatgccca

15 gggatcacccatgcacagcctgagctcacagcagagnntccgcctccaggcccggagcactcctccgccatgaggtcttttacagctcagactgg

238365_s_at HG-U133B

238367_s_at HG-U133B

238376 at HG-U133B

238392_at HG-U133B

35 taaccagggtaaattctgacttctaaggtttcttccttaagtagtgtatagcttgctcaactcaacatttaaaactgaattttagtagagccagtaactgttttcatacaaggg ggtccatcatttccaactccctgtgtcttcctcagcggatgtttncaagttctaaggaacaaagctaataagtaatgtggatgaggctttttcttgacggttttgttttgctgtaactc

238516_at HG-U133B

40 ttttcgattatcagagtacttagtaaatgttatatagtttagttctaagatagttccangganttaanaaggttaagaggaaaacacaaatcaccaantntctgatttatgntt ttatctcctgaacaatattttctcactcatattcctctatcttatcacttagctaaagacagnctaaatttcccaattttctgtccaanatanttgtganttacnntgtatataagcc ttctcantttgccatgtnctgtgatcttacaagttnagatgttactatacctaccatttattcagctggatngctgaacacagttctggattcatagaattaagaatacntgtta gtgcccagganttccacgtttgtgtnttatngnccnttttcttnattcangcccttaatctattttcagtcttctggcacgtaattttttcacagcttatattcttcctattaacaaatt attttatcttgcctagtacatttttcac

238583_at HG-U133B

238587_at HG-U133B

10 gettetacaagtgtgecacatcaatecggtaatgecceagtgttatteacagacagaactttgttteetgtgattttaaaatacegegtetgtteeteeatggaceagagtaa ttggeacattttaatgeataagetgggggttteatttteeeaggetetetteaceateactgeattggtagetaggagettattgetteaceceagtatggagtteagattacag tgtttteeattacatttagatteatagaatetgaatggetgattaaatggeeatetgatggetgaaagaggggegtattttteactetgtagtgaaaggettggaggagtteta ett

15 238593_at HG-U133B

20 attttaatctactttgtcacagctaaattntattacattgagctttacctactttttt

238604_at HG-U133B

238651_at HG-U133B

238652_at HG-U133B

35

ccttccctcatgtataactaccttctgggagggagcctcgctaccctgaagcacaggacatttggtgatcagggacacttaagcctcgcagctcagcaggtctgggcta
tgacactaaggaattcttaccgctctttggagtggggtctggcataagggtctagacaaggacccagggttatttctcagaaatgccctggaagcccctagtaattgag
accttacagcaatcctatgagccattacaaaatggaagtgcaattaaaaatggttttgtttttagggagaaaacctgaataaggaaaatgttatttgacttatactctgg
40 actcctccattctgaatgtagactgcctagatttacaaaaccaaattatgagaaatcagaaatgctgcccatccttttaactctggttatctgaaag

238686_at HG-U133B

5 238750_at HG-U133B

238756_at HG-U133B

gagaactttccatctcttcttaataacagtgcaagattttgtaaattcttttttgtgtttaatgtttaataaaacgagtattaagcttaaattactgaagtacctgggagaagtaat
20 gatgtgtactttcaaaaaaatggaaaatgcttttattttattttctataatttgttaacatgatatgtaaaattaaacttcggagcacaatgaaatgccgattattttaccttgtttg
ggcttaaagtaggtatttaaggtttatgtgttcaaaatgccttggtaaattggatgacctctaactttactgtccatatggagtttgtcattctttatggataagagaacttaagg
aaaagttactgtttttcttcagtctttttatactatctgatttaaaatctgttactttattaaaaggcttcaacaacaggttgttaggatgtagtcttacatccaggttcacataata
accccatttgaatccaaatttgtgtatattttcttatgccagcagtatttgtatccaa

25 238790_at HG-U133B

tttggtctcctacattaaaacaatatgagtctcttaaaatattgatttgttcttagtaagattacaagaggcnttgatttttaattctgcaatgtttccttaacagccattctgaatta caaactaattcctatttctgccacattcctctctgagaactgtctagtcctggtttgggatttatcttaaaggtctagaaaggcaacatttacttcagcaaaacttgattctata ttgttgntttttcttaatgtgtcaaaattgntttgttactaggatttcctatgttgttantaaatgtattcccctgatcaaggtcactggcctagaaaacaaagattctgtgttttaccaagatnaantccnantgcttcatggtgtctttattaggntttgactgttagggaaactgnagccttaaaagggtaaaagttttccatccatgtaactttctgaggtctttang gtgtcactctgattaaatgagtagtattcttagcagtgactta

238791_at HG-U133B

40 238824_at HG-U133B

238856 s at HG-U133B

10 239054 at HG-U133B

15 ttttttatcctaatcacctgcaaatttataacccaatcattcttcctcaa

239071_at HG-U133B

gcacagagctctccaaaaacactcggagtttgcagagtgctaggagtgtctttgtcgttcctagtgatccactntggaccacacctgagtttgttctactgtgaggtgatttt ggtggggcccctagatagcctcatagttggtttagtcagaaaggccaatcacttgatttgagggttaaaacttgtcagcccacttgccaaccttggggttgcagggcca

239122_at HG-U133B

239152_at HG-U133B

30 gatttagaggagtctgcatagcagataaagggagaggtgttagcaaagagtatctgtgaggatgatactcttggaattgcaggtcataagactgggaaagtaggtaa atgctccctgaatggggcttatactttatcctataggcagtgggaagccttaggtaagaatacagtgatacgaaagttttgcattcactttagtaatggtgaaaaactggg gaacagtctattaggtggcagtctttgggctggaatatcccaactgatttctggttttattttctaaaattgttgccttggacccttcctatttttataaccagacacagaaaatc aataaaagtttgagcccagtttatagactattgccagcagtagttcaggttttaaaaaaatgatgagggattaatctaggggcatgaag

35 239214 at HG-U133B

gagaagcctcaaagagcgcagacctggggtcgtttggatgggttcatttcaactcaaatccactaattcaattcagttccacgactagittccagcgcacaggtacaca tggtagacgtcaagtgtatgccgtatgcatatgcacagagacgctatttgaaggcaactcttggagaattttgagataaaattcactctcctggagttacattcgcaatat atgaatatggaaaacaggcaatcagttgtatttaaaatttgccaacacgtcccagcaatccactctcacctaagaatccaa

40 239229_at HG-U133B

tagtgccttgcctcaatggagcttaaagcatagcacataaattttatcttatttagccctggagcatcactaagaagcagctaggaactatggcttgncagacnagattat gcttgtgccagagaagtggagnaagcctgaaatcccttgtcaagtattccacaggaaggaaaggtagtctttgggctttggtctactgacctgtggattaaactctatcc cttagattatcccatttctaaatacatttattcaatcagtatttctataatcacttagcatttgataggcttcttccttgatacatttaacataacgcctcagttgcatattacattatg

239231 at HG-U133B

5 agagacggggttacattgtactggccaggatggtctagatttcctgaccttgtgatccaccccactnnntccnnngntgctgagattncaggagtgagccactgcga ccggcccatgagtctttattaatagagatttcttactggtgttatgtggcagattctgcatattcctcacccatcatatgtattccactttcctttattatggggaaaactactcttttt ggcatgatacaatgttgactccattttctttgctaataaggacttggtatcaatttatcagtatgtaaagtttaccataggatttgtctcatggaatcattcccattttttgctctttt actctttgtcgttatttctgagtatttttggatggttcattttggatgatagaccctgtgatatgacaatatttttatctaatctgatggagaaagcatttagtcctgatcaa

9 10

239263 at HG-U133B

239278_at HG-U133B

239279_at HG-U133B

30 239287_at HG-U133B

cttcccagccttcggaactatggagcccgcactctccagttcatcaccaccccagcatccctactcttgcatctaacagtttccgctattttgcaccacctgcctngncctta tgggcaactcaaggaagaaaggaagaagagataggggaaaaatggattcaacanatgaaagtgttctttctgactactgctgtgtttacaaacattttaatcatcaa aacatgctttatttgatagaaagatcaaatctgcctttgtaaaacaagagactattttaatcattaagacaacacanatgtttgatttggaggcgtgttctcattcaaaacctt gc

35

239292_at HG-U133B

aactttgtgggcaatgatgtctttgctttgctttatactttaacagntatgtatacatccctaaacaaaatataataatcttgcctgtttgggaactataaacagaaacgtatgtt acatatccttttgtctgattctttaatgttttaccaatgtttttccatataaaggtatcttttcnccttgnnnntatttctttttatgaatatactgctgtcaacttgtctatttatgtttaagatttaggaatatggaatataggaatatgtatattgcaactaatgccaaagttttccatagtggttttaccagcaatatatgggaagctcatttatgcataccttct

40 ccaattagccaatctggtggacagtatgttcattttcatg

239302_s_at HG-U133B

ccagatcccagacatccgagtagatcccgtgaaaagcttctacttggtttcttcgtacattctggatccanccctttcatgcatattccagaccacatttccactggagcag ttgaaatgagagagatgggaatgggactcacccgaaccagaggaatttttattacagacccattaacagaggtgtcaaagtcacaggaacaaggatgtgcacctc

agaaacacagagctcagtggaaaatcagtttgcttctatttgtttaaaaaatgggggacttatgcataaatctaagaccttcttgaatctaacattctaagacctgtatgcc acagaaaggagggtctcagaacgccggaggatagtatttaaatcttaaatatctatattgttctccacagttact

239393_at HG-U133B

10

239442_at HG-U133B

gacttgcactattatgacgcctctagttatgtatggctattgaagtaaaattaaagactcagattttttatttgcactagccacattctgcatgttcaaccatcacatttgtctag tggctaccacgtagaacagtgcagatgtagaacacttccatcaccacataaagtcctattggactgcaccactatttaaagatctgagctgaaattgtactgactccag aatctacaatagggcattttgatggtatttaaatagaaatctaggccaggcaccttggctcacactattaatcc

15

239478 x at HG-U133B

239538 at HG-U133B

actgaatatttctgtggtctitttgatttgattcagactcgcaattatgtttcagcaatgttttgtaaagctctttacccctaatatgcctaatcactgtattgtgcatagattgtgttta aaaaatgtactctcaattacctaaaaatgcttctggattagtattgttctggactgtcataggtatgagtggaacattgcaaaaccttatgggaaatttcagacgcaaatca 25 ttatttgggaattctgggccaagcatgaccagcctgcttaggattcaagaggagactgtccactaaatacctccagaatgagctaggggcacacatttttgggtgttgctttt cttgctttatttcttagctagtcatctttatcaaaaatatccttttcaaaatgaggtacctatggtgtttgtggaca

239597 at HG-U133B

atcttctgcccataatgtacccataaagtgtacccataatgacagaacaatttgggcaaatgtgcttgtactccaggagtcctgaaggcatagttcaatgtgacctttga
30 gaaatctatgattctttgcagtcttcatttttatcttaagaattcatgcagattttgcatctgctactccataatgtttattttagtataaaaatatttaaatttttaaattttaacatcact
tatccccactgctgtataccttgatttggaaagtaaggtggtatgcacaatcacattgaattcatagtaagtgctgagcagattggtatcttatgtttgtcgaatgtttgagttg
cacacacaaattaggcttctaga

239647_at HG-U133B

35 ctccaggccccgtagatgggcaaggacttnataancagggttttaggcttttaaaggccanttttgggggtcagccctgcccctgaacctgttcatggtgcatcagaac ataatgctgacnncggtgtcagtgtggcccgagcctgtgtcctccccacctcgccaacctggcaaggacanctgcggccaaggangaaagccctcctttggctgg cctcacgatggggncgtcccgggagccaggtgggagctgccttccactgccatcgggtctcctctctcctcccacgcggctggccctacccagggccancttcggt ctcagtctggcaagacgctgggtcttcaggctccatgccaacagagcccctggtgcaatgcggtcacaggttttatgggactttggtgagctgggcg

40 239651_at HG-U133B

239679_at HG-U133B

aattettgatteatetttgattataagtttttttttgtgattataaattegatagaggaaaaateattatggteeatttaaaettgaagaaatgtateteteetatgageattaaattge catateeattntaggaaagttttaatttaateetgaagaatataaatttataatgtaacaatttaatggttteagetattggtagaetgaettattetntetgetatattt aggataacatacaggattaattttaaagagattggaatatggtgetteatagtgatttetggatteteetgaaacatgeettaagtaaataatgtteeagagttttagggtaet ttaetateteeetggtttgeaagaagtaggea

239699_s_at HG-U133B

239791_at HG-U133B

239824_s_at HG-U133B

239835_at HG-U133B

239956 at HG-U133B

35 240061_at HG-U133B

40 atgtagtgatatttataatcagggatttgaatctttcttaagtctccttctcaatagcactgtaccaaggaactcactt

240106 at HG-U133B

5 240113_at HG-U133B

10 240201_at HG-U133B

15

240239_at HG-U133B

240269_at HG-U133B

240449_at HG-U133B

240572 s at HG-U133B

aaaactctgcaaagacaatgtctagcacttatatctccagtaactcctgtcaaggtttattgttgcttgttcatcattgcagtcctgactacaagtgtgattgcactttctat

35

240581_at HG-U133B

40 aacaagttagacttcagacgaataattactaggctgaggcattttccaggtggtacattcccactttgaggaaacttggtcattttacttttgca

240740_at HG-U133B

aaacctggggtcctgatgatgttgttgagctgctgaatcaaccatccctaaaccctatgctcccaagacttcttgtcatactactacaacagcttcttcatgatgtccaaacccctatgctccaagacttcttgtcatactactacaacagcttcttcatgatgtccaaacccctatgctccaagacttctttgcagacttcttttcctggct

ctctggtaaccagctacatgtcttccacatgaagcctcctgagttcatcagtacatcattgcatcattgacatgaccctgctgaactatgccacgtctgcctttgcttaagtg

240785 at HG-U133B

10 240801_at HG-U133B

15 240842_at HG-U133B

20

241353_s_at HG-U133B

25 ccgggtcacacccaggtaaaggcaggatctaaactgaaactggtgtcagatctggttgccttgcacccctgatatcaggtgaagcaacactgggcaggatagagccagatgaggcaggatagagccaggtgaaggtcagagtgtgaagatccagcctgatgcccaaactgacgcctcttcattctcccctgctccatctgtaaacgtcacggttaatccatctactttattgcatt

241370_at HG-U133B

attcatgacacacctttttcttagtttttcagtatttctaagctacatggtgcatctgcaagtttttaaattgttgcaaatttccaaaaaaattttcaatatttatcaaaatatgca
30 tataagcggtcctatgcagttcaaacccgtgtttgagaatcaactttatgacttccagtgtcattctccaccatttctgcagtttatcacatttttgcttcaggcagatttggtaaat
cttcaatgatagttctctaggccattgttttgtaacatgatcaaatgcttaatgggaaatagaatatgtatatgtattctttgtctaccaactaccaaagaaacaaatactcctc
agtttgact

241383_at HG-U133B

40 241395_at HG-U133B

241421_at HG-U133B

241464 s at HG-U133B

10 ccagggacgtcattttcacttcctggctttggagaagacgcctccatcctccggcacctcgggtaagtcaccttctttccttctgtcgtgaagacgagccgagggtgctgccatctttgtgccccggtgcctgttacgtgtcctccatcttcatttggttctccaaactcagaattctatttcagagccctccatcttccgtgcaggaagccctg

241483_at HG-U133B

20 241525_at HG-U133B

25

241734_at HG-U133B

241742_at HG-U133B

241754_at HG-U133B

40 atctcagcgaggtagcctcttcactctctttttgaacaatcctctaatggccttcctatttgtctctggattgtcaagcatgcgcagaggcctatgggaaaagtgtcaagaat atcttcgaaaaatcaaccgtgatattgcccagctactgactcattcacgttcaatagatcaggcatttctccagttttttggagaattattctcagaattttttggttcagcaccatgaggatgaacaagatttttcgggaaacacgaaattatccagaatcatatccacaactgccaagggatgaaacagtggagaatcctcat ctccagaagcacatttttggaattagcatccattctggatgttcgaaacgtgttctttgag

241795_at HG-U133B

5

241810_at HG-U133B

10 agatatttcaccacaggcgacgaaaaccccacttttaggctggccacacagg

241930_x_at HG-U133B

15 gcaagattgagaaaattctcaagtttttataaacagttctcacactctgccagttccttggaggtag

241969_at HG-U133B

241975 at HG-U133B

ggaggatcgttgagccctaggaagtcaaggctgcagtgagtcatgattgctccgctccactgcactctggccttgatgatagagtgagaaccagtctcnaaaaaaaa 25 aaaggtcattttctaagcatttgttgattcaatactgcccactatgtacactgacaattagacataatttaatttcagctcatggtatgaatggagacaaaatgaaatcatttt aatgcacnattaaggcaatatagtgcccttaaataaaaagttgaagttcataagggaccatcattaagatttaactttg

. . 241985_at HG-U133B

242065_x_at HG-U133B

- 40 gtgatctttgatcattacctgtcatac

242104_at HG-U133B

ctcccaaatgcaggcttgtggctctggaagctgccactggggtcaaaatggcatcttaggttctggcagattgggccaatctcagggttgaccctggggtacagatacc tgagaatcagcaaaatccagctcaatcttttctcctttgttatttcttaaaataatcttgtactaaatcccaangcaagcgaacccatgaattgattattcactgctgccatttg catcagtttaaaagcaggacggctctgagggcaggtattaa

5 242223_at HG-U133B

10 gcctgaggcagggtagagcagtaggaatggaaggaagagatgcataggacagggaagaatttggcagctttgtagt

242292_at HG-U133B

15 aaagccggtcagtgtctgttgcacaaaattacaaccgctctctgct

242329_at HG-U133B

242363 at HG-U133B

aattgacctggaattattggcccaaactctgattcttgctgaagcatctatgagaagtgtgattttagccaagtctgtgccgcattctttatatgtaggaanttaagttttgatt
taatgatttctgaattttctttcagctctactcaattnaggggtatcagtatgtgaaatggaatatagaaaagtaggcaattctttacttttctntattcagtttcataanattnata
ccccataattgcccattatataccaaagacaatatctcaagttatctcattgtagcagtgtctgtgagtcaaaacttcaattttnagtagggtacacatttctntnnnnanan
nnattcatgtactcactactcatgtagttactgtatctttaccttcagtttgtaaaaaatgactaaaagtagggaaaacaangtgttaaaaacataanggataagaaaaggtt
ggaaatcatatggcaaatcacatgttcctcagcctcaaggtgtgttta

242388_x_at HG-U133B

.35 242404_at HG-U133B

gcagtgcactagctattctcaataaaacagaaaccacataggtaagaccaatattgtcacattttggttttggctgataatggggcaagtgagcatagtcaccgttncca gagnatttaccattnacaaataaaagtntctgtggagtnacaaccntttactgtgtnccaggtactgnncnaagcncttngtananaccganncangtaanccnng nnacagccccgtgatgccccatttttagatggggagattgaggttaggagagttgaataacttgcccatagctgcacagcttccaagttgcagagacaggattttcacc gagtcttattacaaactgcctcatattgtgtgggactggaaattctatgttgaggttaatttattcatttgttgtttagttcttttcatcattgttgaggttaccaatggcagttccagagg

40 atttatcatttaccccaaagctactgcaaatctaagagaaaacaatgttcttgctgctaaagt

242414_at HG-U133B

tggcctagacactgcctttggtgataccctaaaccaaaggggccagtcccacagtaagaaggagaccactactactcctgctgccctcctccccccaccttgcctagt ttacaagacaggaggaaagaagaagaagaaaaaaaagttagaaaacaaaacagaagtaagataaatagccagaagaccttggcgacaccacccggcc

242434_at HG-U133B

10

242448_at HG-U133B

taagctgcattaactccaatgtatatgaaaggggcatttttataattgtaagttataatgtaaaacttttcctaatgtaaagttagtcaaggttacaatgaggtgtttaacca gaaaatcgtaatcagaatattctagattgccattgtagtcgttcagtgtttcaacatctgaataaattctgtgtcattgtttagctgtcacagtgtgaaaaacgttttgattcaca aagacaagtacntaaaaagaggtaacagtttttgacagcttaccttgcacactctgaataatgttcatttaaattgatacagcctgtagttccagctacctgggaggctga ggcaggagaattgcctgaacccaagaggcagaggttgcggtgacccaagattgagccactgcactccatcctgggcaacagagtgagaccctgtctccaaaaan aaaaaaaaaaaaaaattctgcggccgcagctattcctttaggagggttcc

242458 at HG-U133B

242463_x_at HG-U133B

- 25 gtgggaaggettttaateaacaateacaacttteatteateatagaatteatgetggggagaaactttacaaatgtgaaacatgtgacaaagtttteagtegcaaateac acettaaaaggagaatteateetggaaagaaceatacaaatgtaaggtttgtgacaagacttttgggagtgattcacacetgaaacaacatactggactte acactggaggagaaacettacaagtgtaatgagtgtngcaaagcetttagcaagcagtcaacacttattcaccatcaggcagttcatggtgtagggaaacttgactaat gtaatgattgtcacaaagtcttcagtaacgctacaaccat
- 30 242520_s_at HG-U133B agccatcgattgatcaaagacctggtcggttacgattgtgcgccaggcgctgctcaagggcctcgttggcgctgctgataccgtcggtcaaggagatctccaaactgc aggcc

242525 at HG-U133B

35 gctggtcgccgggagagagagagagagtgggacttgggagcactttttgtgggtatgtaatggagattccaccagcaacaagctaaaccactcacaagcgggcccaga ggaagtaaatagaacactgtggttgaaccatccttggccttctgcagcaaggatctgcaacctggaaggggcacagaaacaaccaaaagatgaaggctctcagag ctgaggagaggccaggtcagaatatcagaagtcaagaaactgcagcacctctaacacaggggaggctatgaagttcatggttctggatgtctgctccctgggttcaa accttggtcctgccacattagttgtgcaacttggaaagttacttggcttttttgtatctcagttttctc

40 242541 at HG-U133B

nttcagagtttagattgtgagtccatgttttgtctgttgtgcctataaaggaaatttgaaatctgtatcattctactataaagacacatgcacacgtatgtttattgcagcactgtt tacaatagcanagacttggaaccaaccanaatacccacaaatgatagaccggat

242633_x_at HG-U133B

10 242695_at HG-U133B

15

242729 at HG-U133B

gttaatactgccaaatcaccttagatgataaatgntttgttccttaccaattacantgacatcaatttccccagaaatngttttcanncacggttttctaatttcagtgtataaat gcccttgtctgaacgttcacttggagaaatgacaagttcggcataggcagacaaggtcttcattttcacccggtcccctgtttctagtactttatctccaaaacaccaggtt gcagttggccttggatagcctgtacttggaaccaggatcgtgataggatttgggacaataacttccagaccatctttaaatgcacttaaatccattgttggttcaactacaa

20 agaagaaaagttaatgagtttgcagtgccatatttaagtccctgttgccccaaagtagctatgtgcta

242738_s_at HG-U133B

25

242774_at HG-U133B

30 ctgagagaggccttcagaattgcagaacaagaattaaaaatccccagattgctggaaccagaagatgtggatgttgttgatcctgatgaaaagtccatcatgacctat gtggcacagtttctgcagtattccaaagatgcccctgggactggagaggaggctc

242845_at HG-U133B

242866_x_at HG-U133B

242932 at HG-U133B

5

242975_s_at HG-U133B

10

243000_at HG-U133B

243020_at HG-U133B

25 243024_at HG-U133B

30

243030_at HG-U133B

gcaacttgtgactaggtgccaaatgtgtgggatgggcagaagagcaatagggacttaggaaagagaatgtcatgctggtagacttcagggaagtttcataaa aggaagaattttaactcagcgtagaaagatgggtaaattttcctcatgtgaaggtgtactgcctggggtgctgcaggctggagatgtgatataaaataggaggaagg gagtgaaagcacaggaaggaggaaggcaagtttggtgaacacagcaactggctatagaacaggagcagtgggagaaagtccagaaaggtctgctga

35 gcttcagttgtacaaagctgtggagtttggcctttggt

243154 at HG-U133B

ggggagagacaaatggcgcttcctccagttttctgctgcggatgcnagacgcaatggntggancnncnancagtgttcttgcatcttnaggtgnntgtnagggtnga aancccacnttggaggatgncagntcagaaanaaagaaggagccncagtcactgatgatacntgggggcccaggactgctgcttgggtttcttttacatgagacag 40 aaagaaatttgtgtcttgtgttaaatgactgttatttcagttctctgttacttgcagccaagagcaattcctaacaaatacaggagaaaactttattctttatagtttcaaatacc atgggcatgggttaatcctctgctgggttttlaccgcttagacaag

243228_at HG-U133B

tttictgtttcctattcaaattgctgttttgtctcctatgtttaatcatgtatttgctattctgcttatttttctcatttggtggaagtcatttcaagaagagggtttatccactattgatttcaaga
aagaaaccaagcagcattgaaatcatgagtaacagaattcagaacattgtatggtggaagtcatttgtgtctgcagctgttttttcactttncaataaataagagtaaaa
attganannatgtcaaaaaattattgcagtttaactattatggcatagtttcacttcccctcccccattagaatcagtggagatttgttcttactagggaattttggactgctg
ccatttaaaacttaggtttttatttaaagcagttgtgcatttttgagaaaatgtattgggagtaactagagaggatctcccaaattttttgtatgtctctctaggagtaaacatgg
5 caacagtttttctagaacgtggactcactgcagggactggacccaatggcattgttaagaccctaaaatctagccacca

243362_s_at HG-U133B

243363_at HG-U133B

243493 at HG-U133B

20 gctatagtctagttctggcattctcagggatttttaaaagttcagcaagaatgctgaataagcagcagatgtggatagcagcaagccgtcttctgcttctgatctttcgggt cagcattattttnctatcgagccaagcaatgggtctggagggtggaggtccnaccnagggcctgtcnngnngngctgaatgcggcaaagtgaaggtgagtgct gttcacctccgtnnncnnctggcatctggtgccccagaggaggtggtctgcttctcatttttcacaggggcctgaacaacctgc

243538_at HG-U133B

30 243579_at HG-U133B

atcggtggactgagctggcagacctcaccagatagccttagagactattttagcaaatttggagaaattagagaatgtatggtcatgagagatcccactacgaaacgctccagagggttcggtttcgtcacgttcgcagacccagcagtgtagataaagtattaggtcagccccaccatgagttagattccaagacgattgaccccaaagttgcatttcctcgtcgagcgcaacccaaggtgttctagctgagcgtttaagagcatggactctggaaccagactttgaatccttgctctgccactgcagctgtgtgaccttgagcaagctgtgaccttgagcacttgagcatttgaatccttgagcgttgttagcttgagcatttgagagattgagat

243756 at HG-U133B

35

gaaaacccatccttgaacaaggtatagataggggcaacaatttattagtggactggaaatgaacagattgaaaatgaattacctgtattttatccccaagtggaaaattt gtattctcccaatttgcttataattatgatttaaagattgcatctctttcacaatattttctttgaatgtgacctcaaaatattaaaaaattaaggatttggcaaaaataatggggc ataaaacacattttctatataaaaggatgtgatttaagaaaattttaaaagtggataacatatatcaacaaaaatttgtaaatgggattgagtccctaaaacctggaaaa

40 actgacatgggctagctatttattcactcatcgagttacttattccttcgtaa

243764_at HG-U133B

gagttattatgttatcactgtgtctgatgttatctactttgaaaggcagtccagaaaagtgttctaagtgaactcttaagatctattttagataatttcaactaattaaataacctg ttttactgcctgtacattccacattaataaagcgataccaatcttanatgaatgcnaatattactaaaatgcactgatatcacttcttcttcccctgtnnaaaagctttctcatg

243780 at HG-U133B

10

243798_at HG-U133B

243859 at HG-U133B

tcccctattggttgcattgccgagagcagcttggctatcctgagttgaactagctgttggtcatcctaagggcaggcggtctcctgaagttggaccgaaccattaggacgt
gccacagtaacagctacgctgctcagaaggcccgaagggtcttcctcagcgacctagngtgggcacgcgccactgcggccaaaagacagaaatcttttaccgga
agagatgaaatagaaagcaggagccagaggctgacttacagagccagtgtgcggatcagagttccttaggagcggctgctggcggcttgacgggcggaatccttgc
tgaagagaacgtcaaggcccgggcttcgcctgcatcgaacttactgcctaagaataagacccaaatgctgagcgccccgccccaacttgccagtttaagtgc

243932_at HG-U133B

tggagggaatttgctgggctcttttccttgcaatttctaagccaagtgtcttctgcttctgtaaactacttcacttaactgaaatttataacgaattncttcctgnccatttggaat

25 gtggtagttttgncataatctatttgtaagtgncttgtttnccaatgttgctgactgtatctgtggagcttgttgtacaacctttacataaccaggtttgtaaaacagttgagtgaactgttctttgaaattttatttttttattataaaacttagaaacatgttgattatctaatttt

243968 x at HG-U133B

244147 at HG-U133B

40 244230_at HG-U133B

244248 at HG-U133B

tteettgggettgtgteateageagttgtgaagteeecattggggaettggtageatggaaageeacaeaaagatgtgetgeatetgttnttgtetgtgtgggtaetttgtttte
aataatattttgteeettgeetaattttattgtetatgeacatgtgtgegtgtgtgtgtgtgtgetegaatgegtgtatatgtgtttagggtetetteeeagtgateegtaacteacea
5 aaaateacetgttttteecaaaatteeetggageagtaaattaeeattettaaagaaggatagagaaaggeeagtgeaatggetgaaceetgtaateteagtgetttgg
gaggetgeagagagactagettgaggeeagtagtteaaggetgtatgceacaecete

244257 at HG-U133B

244261_at HG-U133B

tttctgacatagcttaagttttccagtaactctaaactccatctcctttatcgtcattaagtcattcacaaaaagccaggagaagcatttggaaagggcatgataatcagtat

15 aataatttgccttgtgtggtcagcacttaactgtttacaaagccctttcacatgcacagcaggtgggaactgcgcggtgtgggctgggcctgtgctggaagcatatcccgt
gaaaagtgttagtgccttaggtgaaagcaacatgtatccctttagactactaacggtatatgttgttcttatgtatttgtatttctatttttctatgtttatgtcatatttaaacg
atatcctactgcttgttggt

244523_at HG-U133B

25 ·

244550_at HG-U133B

gcagtgcaagtgttttctgccctggggtctgcgcaggccactccagtcctcagggggatccctcagtgcagctgggtcactttcttctcagctctgcttacttttgaaattaa gattgttccttgacacttttatggctgttgcgtaggcagagttgagtggctgtgacagagactgggtgaccntcaagcctgaatcatttgcagggtccccctgagaagtg tgcggccctgggccctgggtccctctctcccagccctggcctgggcctgggttgaacctgtgatgtcgggactgcaggnnccctgctgggccgttttcttaccaggcaaaattcct

30 gcttcacagagttgatgccaggggtgtcaaatctt

244636 at HG-U133B

ggitttggaactgaatattgcattgattattcagatttcttttggattitttcactggcagaagagaaactaatctgatcagtaataaaaaaataaaaagaaaacaatacaat ataataaaactctgacatttcataggttcagttatccttggctaaattatgaggtatgactatttgagctttacatttattaacaaaagtggtctttaattggggtgttttatgctttt 35 ttgntcagggtttttatgaagttctgcatggctttgtattcagaagccattcttttatnaaagttcactagcattatctgagcttaatattctgggatgtactttgtagccagtgatg

aaaggaggaaagtcagcagaaattacttacatatttgttagcatttgaaacatcttagccttctaataagaactatcacggccaggcac

244652_at HG-U133B

244740_at HG-U133B

aaagacactgtgtacaacgttggacactgtgcaggatgatgccacttcatcttggatgctaatctgccatgttgacttctgattaaccccaggcccaggaatgcctcaag attictactttacttactgttgcttgtgtaagccaagacaaccttgatgttatcataaacatgtacttacctaagtcctgtcctttggcaaattatgggctatgagacacagcatt cttgcctttccctgaggggtcaatttcagcgatcctacacattcc

5

244876 at HG-U133B

266_s_at HG-U133A

32541 at HG-U133A

25

34210 at HG-U133A

34689_at HG-U133A

40

34726_at HG-U133A

gnnnnnnnnnnnnnnnnttgttaggttagatggggagagacagggcacagaggacctgtctccccggctactcttgccttatggctctagtgtgtgacctacagaggcatgctccaca

35666_at HG-U133A

10

35974_at HG-U133A

15 ntannnnntnnnntnngnnngnanagnatnnnannanancagaggttctcagaatgactgtaagatagcttacatttcctctttttgcctttatctccccaactaaa atacaatgggg

36004_at HG-U133A

36566_at HG-U133A

- 30 gcctgtatcttgaattaaa

36612_at HG-U133A

40 36920_at HG-U133A

tttgtaactatggtatttactgtaagctgtagaacac

37152_at HG-U133A

37424_at HG-U133A

gtagcagcagcagtgcccaccagggagtccataaaagggtccctctctgtcctgctcgatgacctgcaggacctgagtgaagccatttccaaagaggaagctgtttg

10 tcaaggagacaaccttgacag

37831_at HG-U133A

38149 at HG-U133A

25 38269_at HG-U133A...

38340_at HG-U133A

38487_at HG-U133A

39650_s_at HG-U133A

5

39835_at HG-U133A

40148_at HG-U133A

20 40189_at HG-U133A

41220 at HG-U133A

41553_at HG-U133A

41577_at HG-U133A

41660 at HG-U133A

5

44065_at HG-U133A

44563_at HG-U133A

20 44669_at HG-U133A

44790_s_at HG-U133A

ccgalltgtgtctattattggtgacattgttttagatattgggtattgtatattaaggaaaaagatggtctatattctctttattgcatatacttaatgtttcaaaagaatgcagattct
30 gtgtttaagcacagggctgatagttgtggttttgtttacaaatgttctgttttggctgctattggtttttaaagaggttttttaacttttgtattgaatagttatgtttcactgatgctga
gccagtttgtatgtgtgtgcatatatgtgaactgtaactgacaagatgaattac

45633_at HG-U133A

40 46142 at HG-U133A

49306_at HG-U133A

49485 at HG-U133A

10 aaagagaaataatcaaacttgaccatgaag

20 50221_at HG-U133A

25 cactttgtgcctttagtaaacactgtgctttgta

50277_at HG-U133A

51192_at HG-U133A

54970_at HG-U133A

55093_at HG-U133A

56256_at HG-U133A

gggatgtgctgtttccctctacgtgcccagtcctagcctcgctctaggancccangggctggncttnntaagtttccgtnccagtncttcaggcnaagttctgtgttnagtc atgcacacacatancctatgaaaccttggagtttacaaagaattgnccccagctctgggcanccctggccanccctggtccttggtpcatctgctgaggatggggaggtcagggggcctctgctttggggatgggaatgtgtttttctcccaaacttgtttttatagctctgcttgaagggctgggagat

56919_at HG-U133A

57588_at HG-U133A

25 58780 s_at HG-U133A

ctggagtccctggtgactccattctgaggtgtcacaagcaatgaagctatgcaaacaataggaggtgtgacaggggaaccgtagacttta

59697 at HG-U133A

635_s_at HG-U133A

- - 64942_at HG-U133A

5 74694_s_at HG-U133A

ctgggagtccccatcagaggcagtgaggngngccccggccctgggacangcagctgccttntggtctgcatgacactaagacgcttgtccacagcggcgaccca ggcctccaagcttgcacagangcaaggccagacttttccgtcgttt

77508_r_at HG-U133A

10 gacacctgaggggtcaggatatccccacccctgggaaagacgcctttccccactcctgaaccatgaggcctcggctctggggtcttggatggcttttccaccgt ccctgagactggggttgaggggactgangggggccacnaccgccccngccntccagcgcctcctcccagggtggctgggcctcctgttct

90610_at HG-U133A

AFFX-M27830_5_at HG-U133A

20 tagttttaccctactgatgatgttgttgccatggtaatcctgctcagtacgagaggaaccgcaggttcagacatttggtgtatgtgcttggctga

AFFX-M27830 5. at HG-U133B

tagttttaccctactgatgatgtgttgttgccatggtaatcctgctcagtacgagaggaaccgcaggttcagacatttggtgtatgtgcttggctga

25 AFFX-M27830_M_at HG-U133A

35 AFFX-r2-Bs-dap-3_at HG-U133A

gatttgacagaagcggaactctcttctaacggtacggtcagtttgcgtaaagaagaagcagctgaagcagcccgcatattaggcgcagataaaagaattcagctaa cgcttccagaccgcggcctaataatgagtgatcaggcaattcggtcaattgtcactgtcatcagaatctgtcggccaaaagcggtttttatgccgtataaaaaggatcgc catccggatcacggcaatgcggctgcactggtggaagaagcgatcttttccgccggaatccataaatataaagacgaaaaaagccttccggcgcataaagtcagc aaggtttactattatatgataaatggttttcatcagccggattttgttattgatatctcggatacaatagaggcaaagaaacaaagcctcaacgcctacaaaagccagttt

40 atcccgtcaaaggattccgtttct

AFFX-r2-Ec-bioD-3_at HG-U133A

ttctgacactttcacttttgcagattgggtaacacaggaacaactgccggtgatactggtagttggtggaaactcggctgtattaatcacgcgatgttgactgcacaggta atacaacacgccggactgactctggcgggttgggtggcgaacgatgttacgcctccgggaaaacgtcacgctgaatatatgaccacgctcacccgcatgattcccg cgccgctgctgggagaggatcccctggcttgc